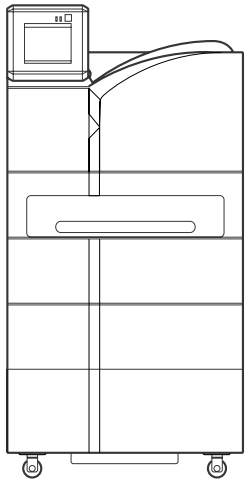
KONICA MINOLTA

LASER IMAGER

DRYPRO MODEL 793

INSTALLATION MANUAL

CODE NO.
0792 (UL), 0791 (CE)



KONICA MINOLTA MEDICAL & GRAPHIC, INC.
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The following Medical Device approval applies:

Approval Number	Commercial Name
11BZ0539	Laser Imager DRYPRO Vstage MODEL 793

Foreword

This section sets out information with which the service engineers must familiarize themselves before proceeding with installation.

Cautions Regarding Installation

The following cautions must be read before proceeding with installation and strictly observed.

1. To ensure safety, only qualified service engineers are permitted to open external covers or touch internal components.

2. The device incorporates a laser unit (Class IIIb). Exposure of the eyes to the laser may result in serious injury. Protective goggles must be worn at all while carrying out adjustments or repairs.

3. Under no circumstances should procedures or adjustments not detailed in this manual be attempted. Doing so may result in harmful electromagnetic wave emissions.

4. Cautions indicated on warning levels must be observed at all times to ensure safety.

5. The device incorporates high-voltage components. Touching such components may result in electric shock: care must be exercised.

6. Caution must be exercised to ensure that body parts or clothing do not become trapped in moving parts in the device such as fans.

7. The weight of the device is approximately 255kg (285kg with sorter). Sufficient space to ensure safety must be allowed during unpacking and installation.

8. Electrical circuitry in the device may be damaged by generation of static electricity. Care must be taken when effecting repairs in handling both the main body and removed components.

9. Always ensure that the device power supply is switched off before disconnecting or connecting cables or connectors. Under absolutely no circumstances should such procedures be attempted with the power supply on: doing so may result in serious accidents.

10. Anti-static wrist bands must be worn at all times when handling circuit boards.

11. The device incorporates a lithium battery. Failure to follow correct procedure when replacing the battery may result in damage: replacement should be carried out by a qualified service engineer.

12. DRYPRO 793 is a Class I laser device and is equipped with an interlock. The procedures detailed in this manual must be followed when disengaging the interlock.

13. Disposal of the DRYPRO 793 main body (lithium battery (including hexavalent chromium, cadmium, mercury, PBB, PBDE), fluorescent tube (in liquid crystal module), accessories, options, consumables, packing materials and film must be carried out in accordance with relevant local ordinances and regulations.

Warning Text (Signal Word)

Signal words indicate the degree of potential hazards in the product.

There are 3 degrees of caution levels, and each is used depending on the level of risk and damage caused by incorrect use and mishandling.

DANGER : Failure to observe the caution will produce high risk of serious or fatal injury.

WARNING : Failure to observe the caution will produce moderate risk of serious or fatal injury.

CAUTION : Failure to observe the caution will produce risk of moderate or light injury. or damage to property.

		Risk of the damage	
		High	Low
Bodily injury (and damage to property)	Loss of life or serious injury (Damage is serious)	DANGER	WARNING
	Moderate damage or light injury (Damage is light)	WARNING or CAUTION	CAUTION
Damage to property only		CAUTION	

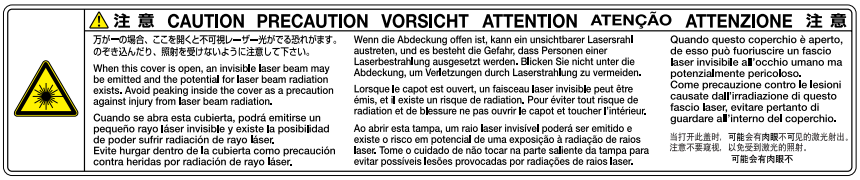
Warning Labels

Warning labels on the DRYPRO 793 are affixed at the locations shown below, and indicate possible danger to the user.

p.7 Locations of Warning Labels

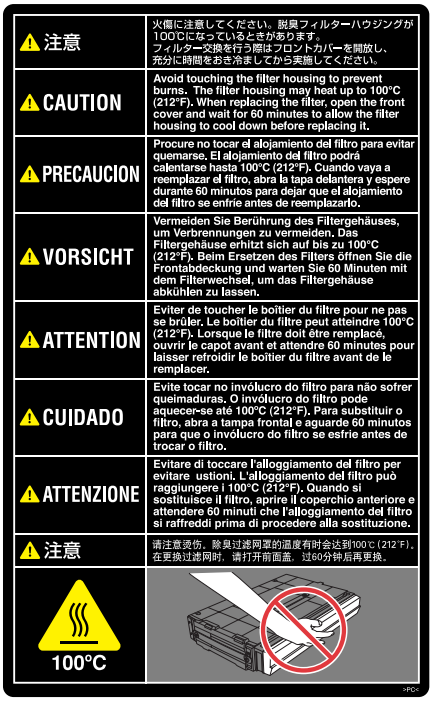
Description of Warning Labels

(1) Laser Caution Label


注 意 CAUTION PRECAUTION VORSICHT ATTENTION ATENÇÃO ATTENZIONE 注 意
万が一の場合、ここを開くと不可視レーザー光がでる恐れがあります。のぞき込んだり、照射を受けないように注意して下さい。
When this cover is open, an invisible laser beam may be emitted and the potential for laser beam radiation exists. Avoid peaking inside the cover as a precaution against injury from laser beam radiation.
Cuando se abra esta cubierta, podrá emitirse un pequeño rayo láser invisible y existe la posibilidad de poder sufrir radiación de rayo láser. Evite hurgar dentro de la cubierta como precaución contra heridas por radiación de rayo láser.
Wenn die Abdeckung offen ist, kann ein unsichtbarer Lasersrahl austreten, und es besteht die Gefahr, dass Personen einer Laserbestrahlung ausgesetzt werden. Blicken Sie nicht unter die Abdeckung, um Verletzungen durch Laserstrahlung zu vermeiden.
Lorsque le capot est ouvert, un faisceau laser invisible peut être émis, et il existe un risque de radiation. Pour éviter tout risque de radiation et de blessure ne pas ouvrir le capot et toucher l'intérieur.
Ao abrir esta tampa, um raio laser invisível poderá ser emitido e existe o risco em potencial de uma exposição à radiação de raios laser. Tome o cuidado de não tocar na parte saliente da tampa para evitar possíveis lesões provocadas por radiações de raios laser.
Quando questo coperchio è aperto, de esso può fuoriuscire un fascio laser invisibile all'occhio umano ma potenzialmente pericoloso. Come precauzione contro le lesioni causate dall'irradiazione di questo fascio laser, evitare pertanto di guardare all'interno del coperchio.
当打开此盖时，可能会有肉眼不可见的激光射出。注意不要观视，以免受到激光的照射。
可能会有肉眼不

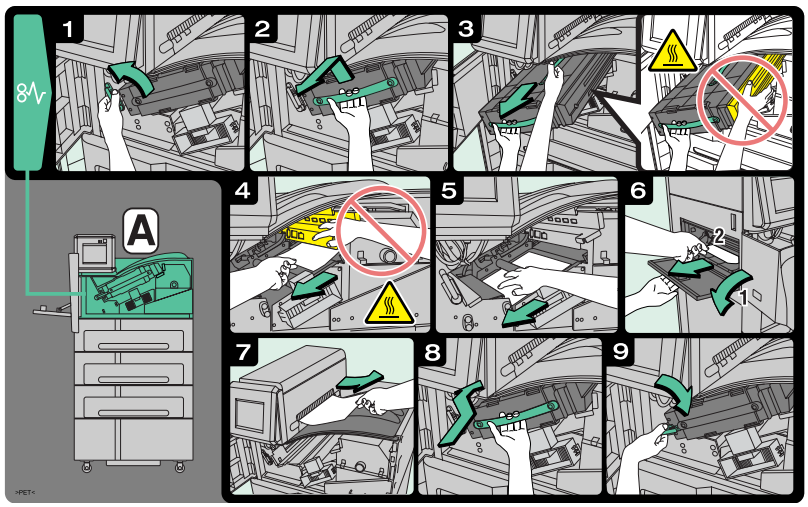
(2) High Temp. 100℃ Label-1

(3) High Temp. 100℃ Label-2

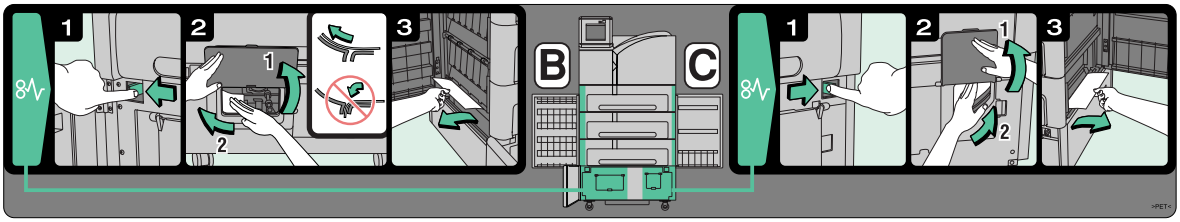

注意
火傷に注意してください。脱臭フィルターハウジングが100℃になっているときがあります。フィルター交換を行う際はフロントカバーを開放し、充分に時間をおき冷ましてから実施してください。
CAUTION
Avoid touching the filter housing to prevent burns. The filter housing may heat up to 100°C (212°F). When replacing the filter, open the front cover and wait for 60 minutes to allow the filter housing to cool down before replacing it.
PRECAUCION
Procure no tocar el alojamiento del filtro para evitar quemarse. El alojamiento del filtro podrá calentarse hasta 100°C (212°F). Cuando vaya a reemplazar el filtro, abra la tapa delantera y espere durante 60 minutos para dejar que el alojamiento del filtro se enfríe antes de reemplazarlo.
VORSICHT
Vermeiden Sie Berührung des Filtergehäuses, um Verbrennungen zu vermeiden. Das Filtergehäuse erhitzt sich auf bis zu 100°C (212°F). Beim Ersetzen des Filters öffnen Sie die Frontabdeckung und warten Sie 60 Minuten mit dem Filterwechsel, um das Filtergehäuse abkühlen zu lassen.
ATTENTION
Eviter de toucher le boîtier du filtre pour ne pas se brûler. Le boîtier du filtre peut atteindre 100°C (212°F). Lorsque le filtre doit être remplacé, ouvrir le capot avant et attendre 60 minutes pour laisser refroidir le boîtier du filtre avant de le remplacer.
CUIDADO
Evite tocar no invólucro do filtro para não sofrer queimaduras. O invólucro do filtro pode aquecer-se até 100°C (212°F). Para substituir o filtro, abra a tampa frontal e aguarde 60 minutos para que o invólucro do filtro se esfrie antes de trocar o filtro.
ATTENZIONE
Evitare di toccare l'alloggiamento del filtro per evitare ustioni. L'alloggiamento del filtro può raggiungere i 100°C (212°F). Quando si sostituisce il filtro, aprire il coperchio anteriore e attendere 60 minuti che l'alloggiamento del filtro si raffreddi prima di procedere alla sostituzione.
注意
请注意烫伤。除臭过滤网罩的温度有时会达到100℃(212°F)。在更换过滤网时，请打开前面盖，过60分钟后再更换。
100°C

(4) Class1 Laser Product Label

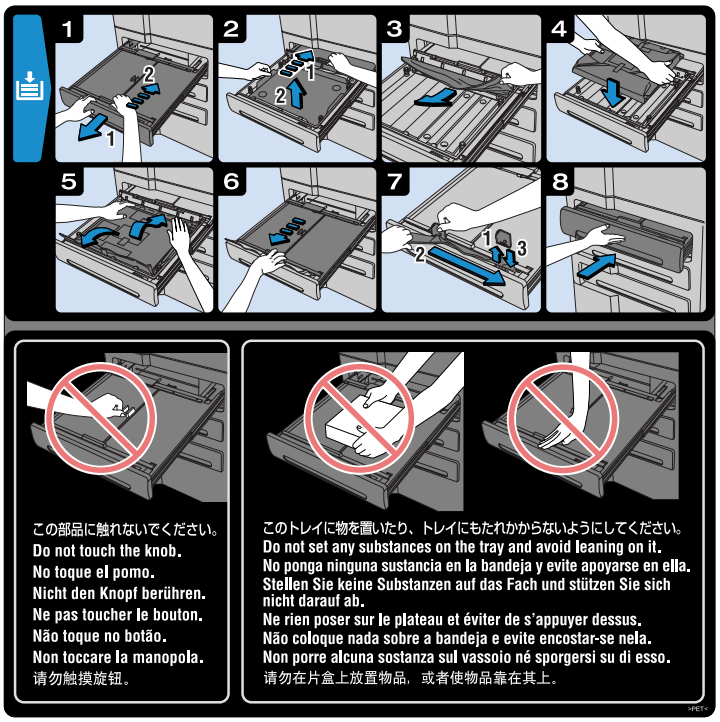
(5) Jam Release Label-A



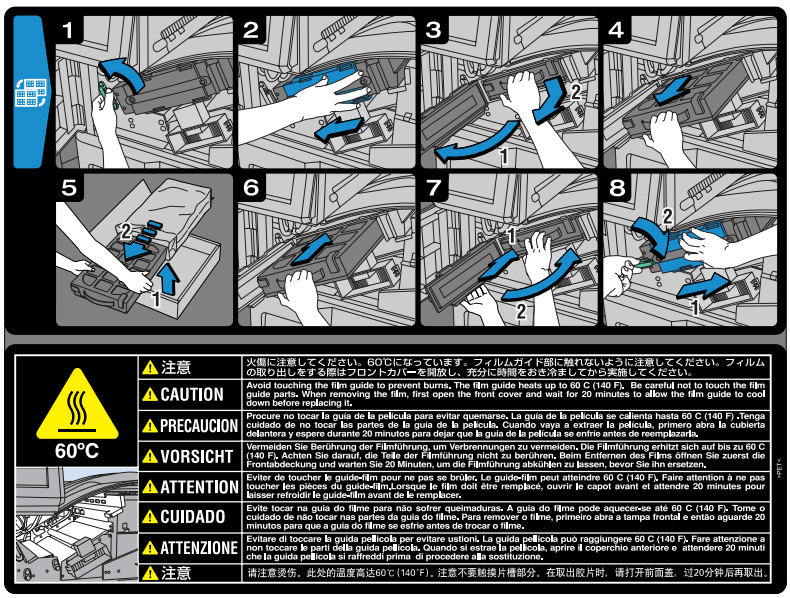
(6) Jam Release Label-B•C



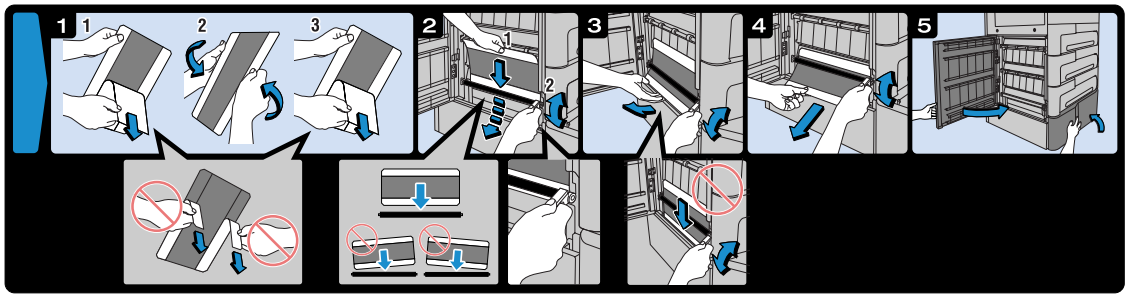
(7) Film Loading Label


1
2
3
4
5
6
7
8
この部品に触れないでください。
Do not touch the knob.
No toque el pomo.
Nicht den Knopf berühren.
Ne pas toucher le bouton.
Não toque no botão.
Non toccare la manopola.
请勿触摸旋钮。
このトレイに物を置いたり、トレイにもたれかからないようにしてください。
Do not set any substances on the tray and avoid leaning on it.
No ponga ninguna sustancia en la bandeja y evite apoyarse en ella.
Stellen Sie keine Substanzen auf das Fach und stützen Sie sich nicht darauf ab.
Ne rien poser sur le plateau et éviter de s'appuyer dessus.
Não coloque nada sobre a bandeja e evite encostar-se nela.
Non porre alcuna sostanza sul vassoio né sporgersi su di esso.
请勿在片盒上放置物品，或者使物品靠在其上。

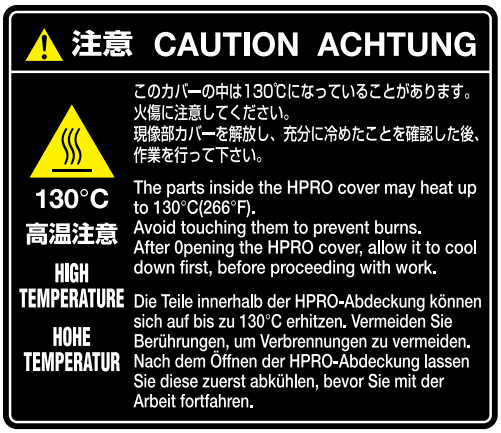
(8) Deodorant Filter Change Label


1
2
3
4
5
6
7
8
60°C
注意
火傷に注意してください。60℃になっています。フィルムガイド部に触れないように注意してください。フィルムの取り出しをする際はフロントカバーを開放し、充分に時間をおき冷ましてから実施してください。
CAUTION
Avoid touching the film guide to prevent burns. The film guide heats up to 60 C (140 F). Be careful not to touch the film guide parts. When removing the film, first open the front cover and wait for 20 minutes to allow the film guide to cool down before replacing it.
PRECAUCION
Procure no tocar la guía de la película para evitar quemarse. La guía de la película se calienta hasta 60 C (140 F) .Tenga cuidado de no tocar las partes de la guía de la película. Cuando vaya a extraer la película, primero abra la cubierta delantera y espere durante 20 minutos para dejar que la guía de la película se enfríe antes de reemplazarla.
VORSICHT
Vermeiden Sie Berührung der Filmführung, um Verbrennungen zu vermeiden. Die Filmführung erhitzt sich auf bis zu 60 C (140 F). Achten Sie darauf, die Teile der Filmführung nicht zu berühren. Beim Entfernen des Films öffnen Sie zuerst die Frontabdeckung und warten Sie 20 Minuten, um die Filmführung abkühlen zu lassen, bevor Sie ihn ersetzen.
ATTENTION
Eviter de toucher le guide-film pour ne pas se brûler. Le guide-film peut atteindre 60 C (140 F). Faire attention à ne pas toucher les pièces du guide-film.Lorsque le film doit être remplacé, ouvrir le capot avant et attendre 20 minutes pour laisser refroidir le guide-film avant de le remplacer.
CUIDADO
Evite tocar na guia do filme para não sofrer queimaduras. A guia do filme pode aquecer-se até 60 C (140 F). Tome o cuidado de não tocar nas partes da guia do filme. Para remover o filme, primeiro abra a tampa frontal e então aguarde 20 minutos para que a guia do filme se esfrie antes de trocar o filme.
ATTENZIONE
Evitare di toccare la guida pellicola per evitare ustioni. La guida pellicola può raggiungere 60 C (140 F). Fare attenzione a non toccare le parti della guida pellicola. Quando si estrae la pellicola, aprire il coperchio anteriore e attendere 20 minuti che la guida pellicola si raffreddi prima di procedere alla sostituzione.
注意
请注意烫伤，此处的温度高达60℃(140°F)。注意不要触摸片槽部分。在取出胶片时，请打开前面盖，过20分钟后再取出。

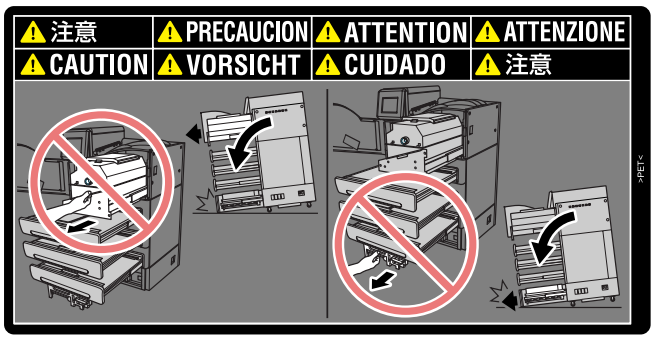
(9) Cleaning Roller Cleaning Label



(10) High Temp. 130℃ Label


注意 CAUTION ACHTUNG
130°C
高温注意
HIGH TEMPERATURE
HOHE TEMPERATUR
このカバーの中は130℃になっていることがあります。
火傷に注意してください。
現像部カバーを解放し、充分に冷めたことを確認した後、
作業を行って下さい。
The parts inside the HPRO cover may heat up to 130°C(266°F).
Avoid touching them to prevent burns.
After 0pening the HPRO cover, allow it to cool down first, before proceeding with work.
Die Teile innerhalb der HPRO-Abdeckung können sich auf bis zu 130°C erhitzen. Vermeiden Sie Berührungen, um Verbrennungen zu vermeiden.
Nach dem Öffnen der HPRO-Abdeckung lassen Sie diese zuerst abkühlen, bevor Sie mit der Arbeit fortfahren.

(11) Label Indicating Danger of Toppling



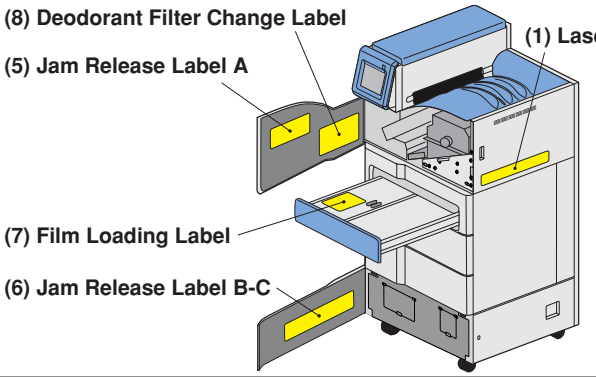
Locations of Warning Labels

p.4 Description of Warning Labels

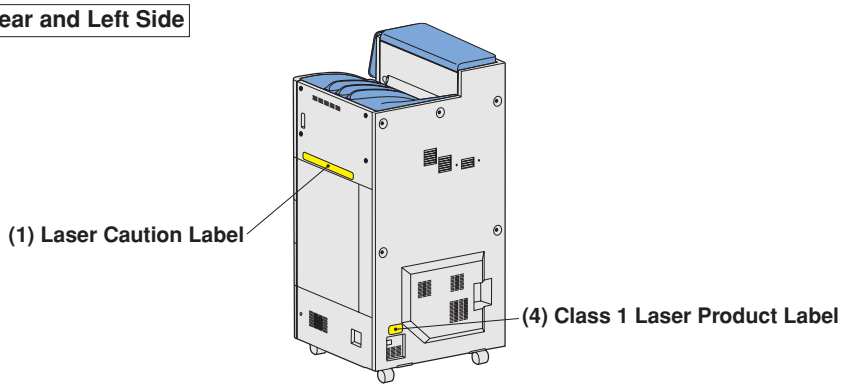
To avoid the risk of burns or electrocution, ensure that labels do not become grimy.

Labels that have become illegible or have peeled off should be replaced.

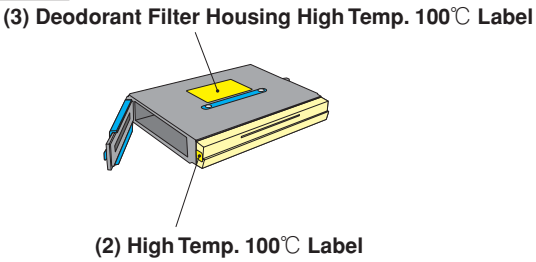
Internal



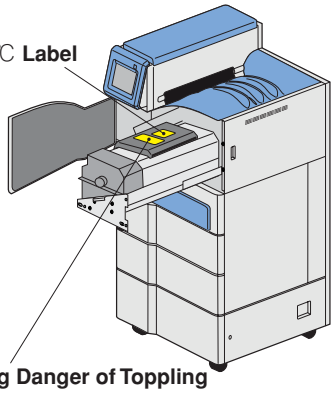
Rear and Left Side



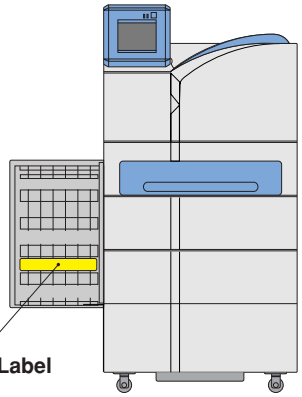
Deodorant Filter Case



HPRO Unit Cover



Cleaning Rollers



p.4 **Description of Warning Labels**

To avoid the risk of burns or electrocution, ensure that labels do not become grimy.

Labels that have become illegible or have peeled off should be replaced.

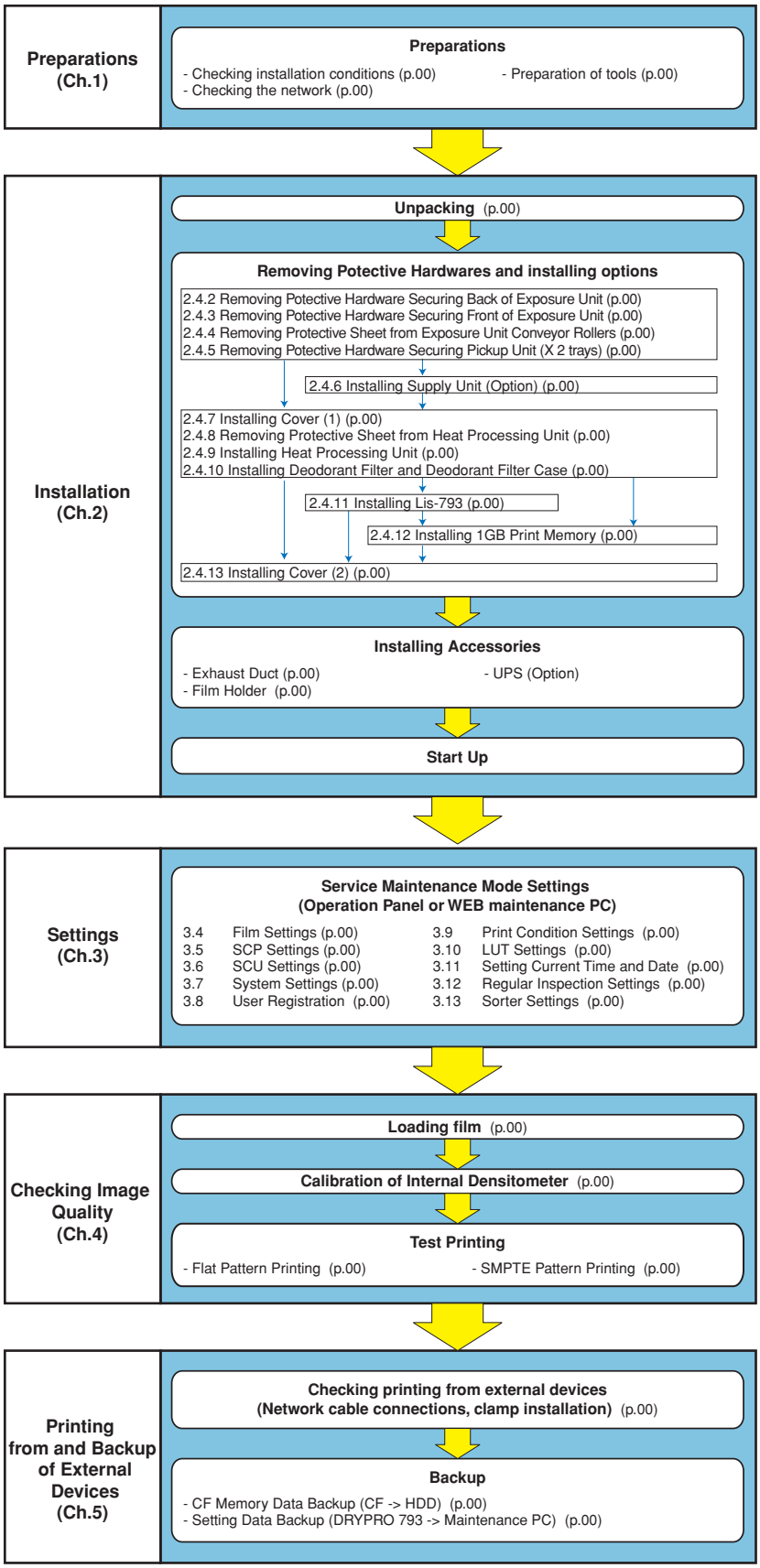
Chap. 1

Pre-installation Information

This chapter presents information to be read and assimilated before proceeding with installation.

1.1 Installation Work Flow

For maximum efficiency, the installation procedure should be carried out in the sequence detailed below.


Preparations (Ch.1)
Preparations
- Checking installation conditions (p.00)
- Checking the network (p.00)
- Preparation of tools (p.00)
Installation (Ch.2)
Unpacking (p.00)
Removing Potective Hardwares and installing options
2.4.2 Removing Potective Hardware Securing Back of Exposure Unit (p.00)
2.4.3 Removing Potective Hardware Securing Front of Exposure Unit (p.00)
2.4.4 Removing Protective Sheet from Exposure Unit Conveyor Rollers (p.00)
2.4.5 Removing Potective Hardware Securing Pickup Unit (X 2 trays) (p.00)
2.4.6 Installing Supply Unit (Option) (p.00)
2.4.7 Installing Cover (1) (p.00)
2.4.8 Removing Protective Sheet from Heat Processing Unit (p.00)
2.4.9 Installing Heat Processing Unit (p.00)
2.4.10 Installing Deodorant Filter and Deodorant Filter Case (p.00)
2.4.11 Installing Lis-793 (p.00)
2.4.12 Installing 1GB Print Memory (p.00)
2.4.13 Installing Cover (2) (p.00)
Installing Accessories
- Exhaust Duct (p.00)
- Film Holder (p.00)
- UPS (Option)
Start Up
Settings (Ch.3)
Service Maintenance Mode Settings
(Operation Panel or WEB maintenance PC)
3.4 Film Settings (p.00)
3.5 SCP Settings (p.00)
3.6 SCU Settings (p.00)
3.7 System Settings (p.00)
3.8 User Registration (p.00)
3.9 Print Condition Settings (p.00)
3.10 LUT Settings (p.00)
3.11 Setting Current Time and Date (p.00)
3.12 Regular Inspection Settings (p.00)
3.13 Sorter Settings (p.00)
Checking Image Quality (Ch.4)
Loading film (p.00)
Calibration of Internal Densitometer (p.00)
Test Printing
- Flat Pattern Printing (p.00)
- SMPTE Pattern Printing (p.00)
Printing from and Backup of External Devices (Ch.5)
Checking printing from external devices
(Network cable connections, clamp installation) (p.00)
Backup
- CF Memory Data Backup (CF -> HDD) (p.00)
- Setting Data Backup (DRYPRO 793 -> Maintenance PC) (p.00)

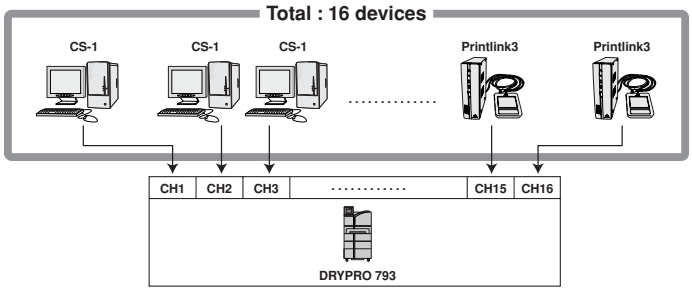
1.2 External Device Connection Configuration

This section details the configuration of external device connection to DRYPRO 793.
Normally, DRYPRO 793 has a maximum external device connection capacity of 16CH. (Basic specification)
In cases where capacity in excess of 16CH is required, or where multiple devices are to be connected under the same settings, connection of up to 20CH is possible under certain conditions. (Expanded port specification)
The connection configurations are shown below.

1.2.1 Basic Specification

In the basic specification, DRYPRO 793 has a maximum external device connection capacity of 16CH.
In cases where devices of other manufacturers are to be connected for direct DICOM input, a DRYPRO multi-client license is required for the 2ch or more.

Example of 16ch in the Basic Specification



1.2.2 Expanded Port Specification

Conditions

The expanded port specification includes 5ch in addition to 15ch of the basic specification, producing a total of 20ch.

The expanded channel configuration enables connection of a maximum of five additional external devices to 1ch of the basic specification. The following conditions apply to the external devices connected to the expanded port.

1. No. of Expanded ch : 5ch
2. Devices that may be connected : KDIS devices (RS Series, IS Series, Liteview) REGIUS Series (backup settings only)
3. No. of sheets to be processed : Devices with maximum daily print count of 20 sheets.
4. Setting Restrictions : Unlike the basic specification, channel-specific LUT settings or print condition settings cannot be made for external devices connected to the expanded 5ch.
   The LUT setting is fixed at linear and the print condition settings are common to the expanded 5ch.
5. Preparations : Before making expanded port settings, the Konica Minolta sales department should be contacted for details of system drawings.

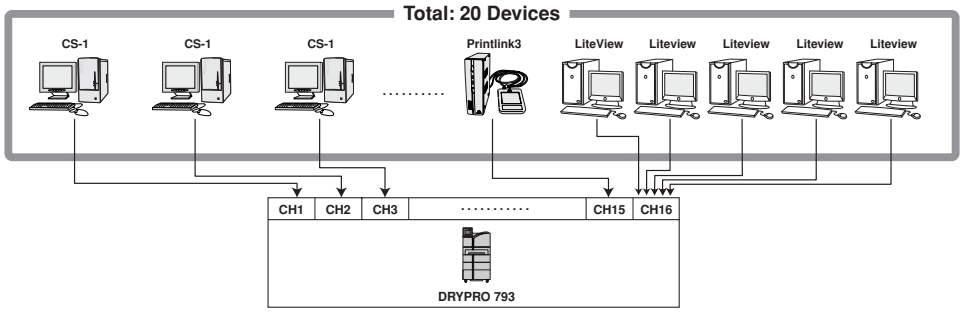
Settings

In normal SCU settings, the "expanded port no." + "AE Title" setting is essential: with DRYPRO 793, however, additional channels may be allocated to a 1ch expanded port without AE title. (The port to which the additional channels are to be allocated is determined under [SERVICE 1] - [SCP SETUP].

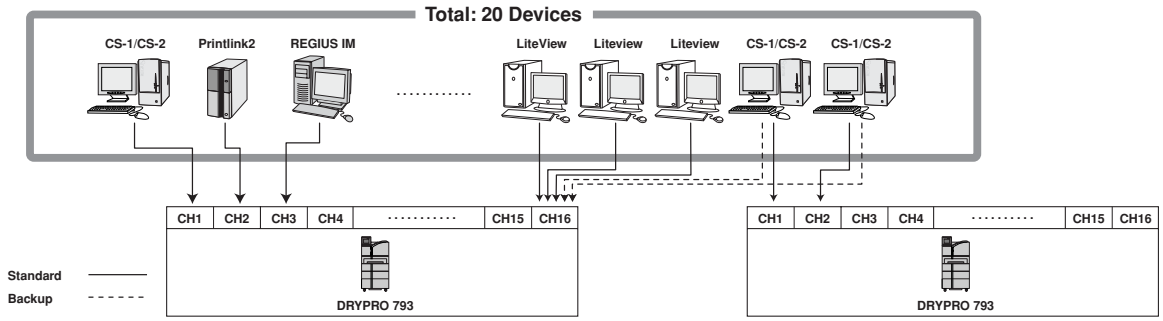
Use of the expanded port enables connection of a maximum of 20ch.

The expanded port and AE title of the external devices connected are set in the blank column.

Example of 15ch Basic Specification + 5ch Expanded Port Specification



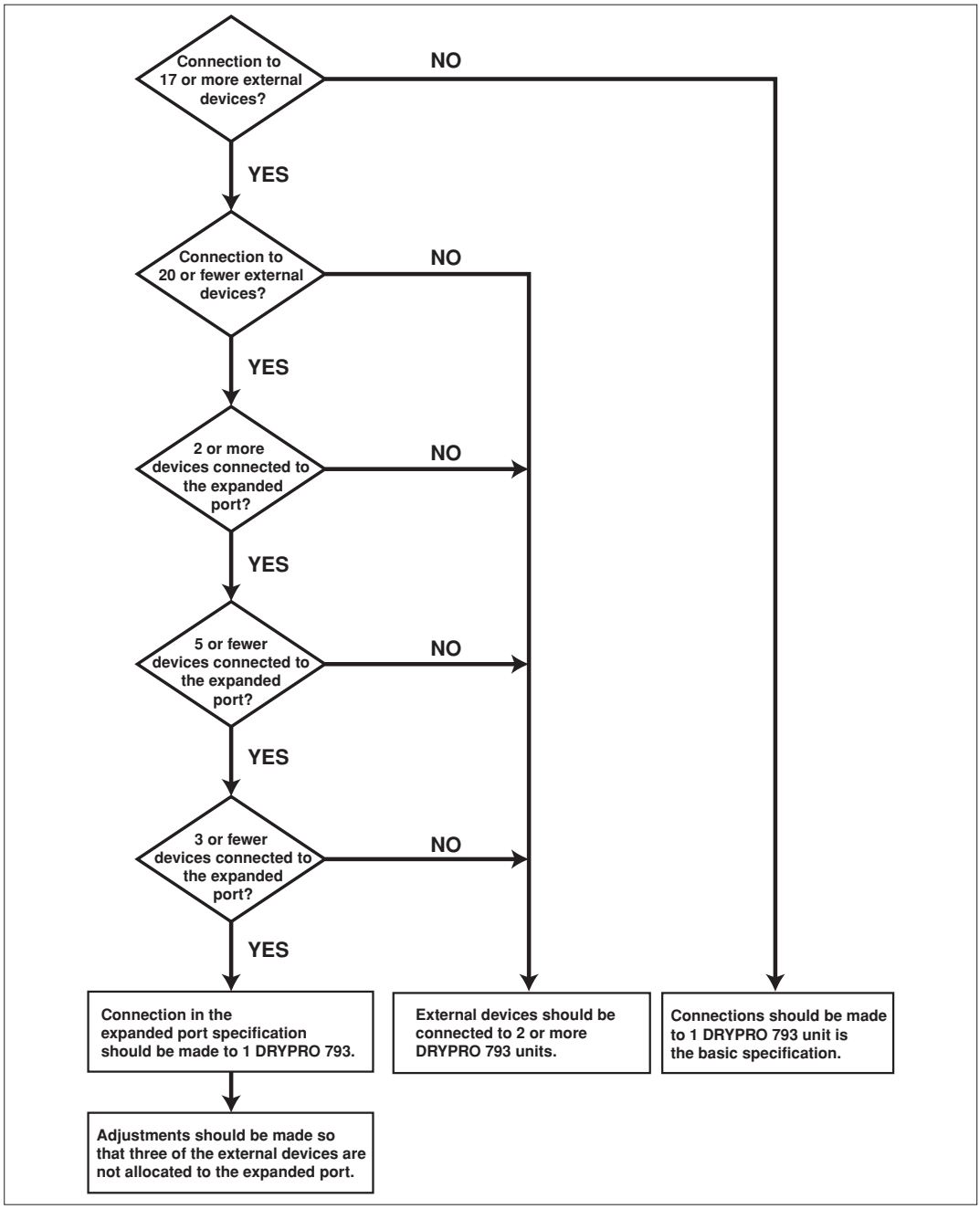
Example of 15ch Basic Specification + 5ch Expanded Port Specification (2ch set as backup)



Flow Chart Showing Determination of Basic Specification/Expanded Port Specification

A flow chart showing how to determine whether the connections should be made in the basic or expanded port specification is set out below.

In cases where there is sufficient space and more than one DRYPRO 793 installed, the basic specification should be selected.


Connection to 17 or more external devices?
NO
YES
Connection to 20 or fewer external devices?
NO
YES
2 or more devices connected to the expanded port?
NO
YES
5 or fewer devices connected to the expanded port?
NO
YES
3 or fewer devices connected to the expanded port?
NO
YES
Connection in the expanded port specification should be made to 1 DRYPRO 793.
External devices should be connected to 2 or more DRYPRO 793 units.
Connections should be made to 1 DRYPRO 793 unit is the basic specification.
Adjustments should be made so that three of the external devices are not allocated to the expanded port.

Conditions for devices allocated to the expanded port.

- KDIS devices (RS Series, IS Series, Liteview) or REGIUS Series (backup settings only)
- Maximum daily print count of 20 sheets per device.
- LUT setting fixed to "linear".
- Print conditions common to the additional 5ch.

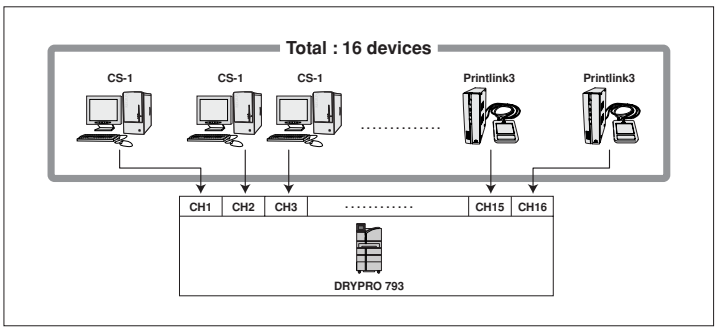
p.93 SCP SETUP
p96 SCU SETUP

Illustrations of Examples of Basic/Expanded Port Specification Settings

Differences in settings between the connections in basic and expanded are detailed below.

Illustration of Example or Basic Configuration Settings

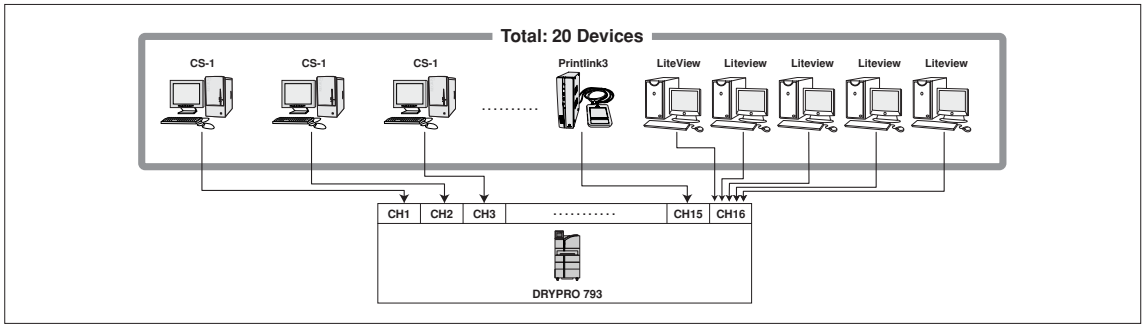
(Connection to **16** external devices in basic configuration.)



	SCP SETUP Expanded Port Channel Function
DRYPRO 793	NO SELECT

CH	Connected Device	Connection Spec.	SCU Setting			Print Condition SETUP, LUT SETUP
			Use of Input Device	Input Device IP Address	Input Device AE Title	
1	CS-1	Basic	ON	192.168.20.90	KC_CS1L_U001	Individual Settings Possible
2	CS-1	Basic	ON	192.168.20.91	KC_CS1L_U001	Individual Settings Possible
3	CS-1	Basic	ON	192.168.20.92	KC_CS1L_U001	Individual Settings Possible
...	...	...	...	...	...	...
15	PrintLink3	Basic	ON	192.168.20.104	KC_PRINK3_U001	Individual Settings Possible
16	PrintLink3	Basic	ON	192.168.20.105	KC_PRINK3_U002	Individual Settings Possible

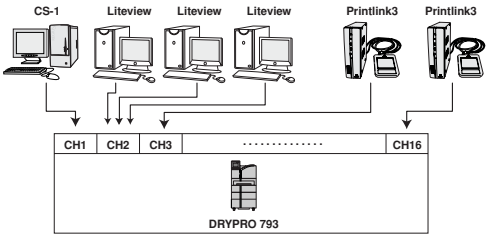
Illustration of Example for Expanded Port Configuration Settings 1
(Connection to 20 external devices with CH4 set as the expanded port)



	SCP SETUP Expanded Port Channel Function
DRYPRO 793	CH 16

CH	Connected Device	Connection Spec.	SCU Setting			Print Condition SETUP, LUT SETUP
			Use of Input Device	Input Device IP Address	Input Device AE Title	
1	CS-1	Basic	ON	192.168.20.90	KC_CS1L_U001	Individual Settings Possible
2	CS-1	Basic	ON	192.168.20.91	KC_CS1L_U001	Individual Settings Possible
3	CS-1	Basic	ON	192.168.20.92	KC_CS1L_U001	Individual Settings Possible
...	...	...	...	...	...	...
15	PrintLink3	Basic	ON	192.168.20.104	KC_PRINK3_U001	Individual Settings Possible
16	LiteView	Expanded	ON	(Blank)	(Blank)	Common Settings
	LiteView	Expanded				
	LiteView	Expanded				
	LiteView	Expanded				
	LiteView	Expanded				

Illustration of Example for Expanded Port Configuration Settings 2
(Connection to 20 external devices with CH2 set as the expanded port)



	SCP SETUP Expanded Port Channel Function
DRYPRO 793	CH 2

CH	Connected Device	Connection Spec.	SCU Setting			Print Condition SETUP, LUT SETUP
			Use of Input Device	Input Device IP Address	Input Device AE Title	
1	CS-1	Basic	ON	192.168.20.90	KC_CS1L_U001	Individual Settings Possible
2	LiteView	Expanded	ON	(Blank)	(Blank)	Common Settings
	LiteView	Expanded				
	LiteView	Expanded				
3	PrintLink3	Basic	ON	192.168.20.92	KC_PRINK3_U001	Individual Settings Possible
...	...	...	...	...	...	...
16	PrintLink3	Basic	ON	192.168.20.104	KC_PRINK3_U001	Individual Settings Possible

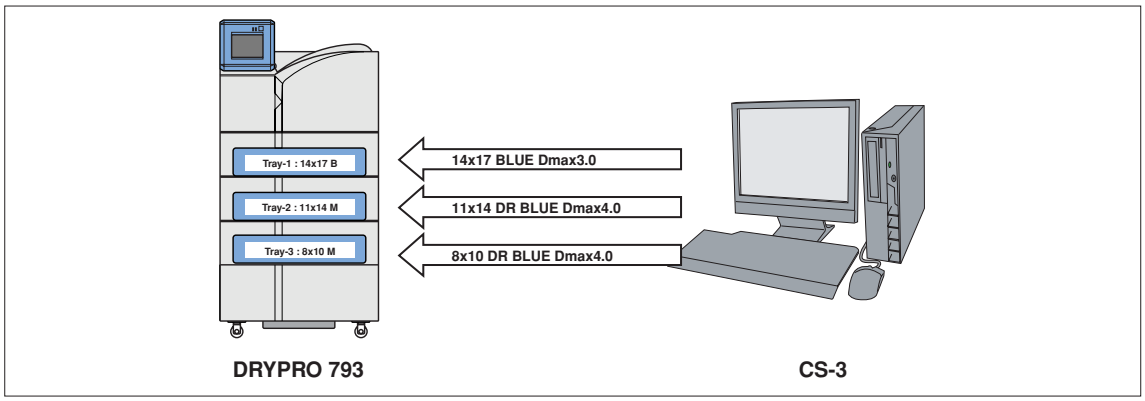
1.2.3 25μ Output

For a Regius-PCM system, the DRYPRO 793 super-fine mode (25μm) is required.
For connections to Regius contact mammography/normal photography and other modalities, the normal mode (43.7μm) is used.
DRYPRO 793 requires the conditions shown below for 25μm output.
- 1GB expanded print memory.
- Loaded with mammography-dedicated film (film type <M>).

An example of output in the 25μm mode is shown below.

Connected to CS3 (Venus PCM Mode)

	SCU Setting Size Type Check
DRYPRO 793	ON



For 25um output, a command for output on the "DR BLUE FILM" film type must be sent from CS-3.

For 25um output, giga-bit Ethernet is recommended to ensure a large image size.

1.2.4 Mammo-film Output

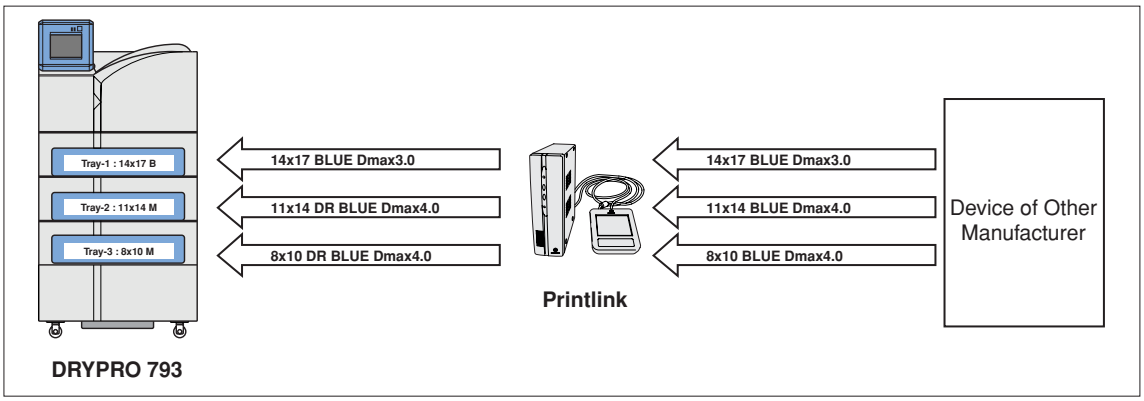
In mammo-mode of other manufacturers, DRYPRO 793 high-density output (Dmax 4.0) is required. For Regius normal photography and other modalities, Dmax 3.0 is used.
DRYPRO 793 requires the conditions shown below for Dmax 4.0 output.
- Loaded with mammography-dedicated film (film type <M>).

An example of mammo-film output is shown below.

Connection to Devices of other Manufacturers Using Printlink

The "BLUE FILM" output command from devices of other manufacturers must be converted to "DR BLUE FILM" (Konica Minolta's unique standard) and sent to DRYPRO 793. For details of he method of conversion and other relevant information, refer to the Printlink Manual.

	SCU Setting Size Type Check
DRYPRO 793	ON



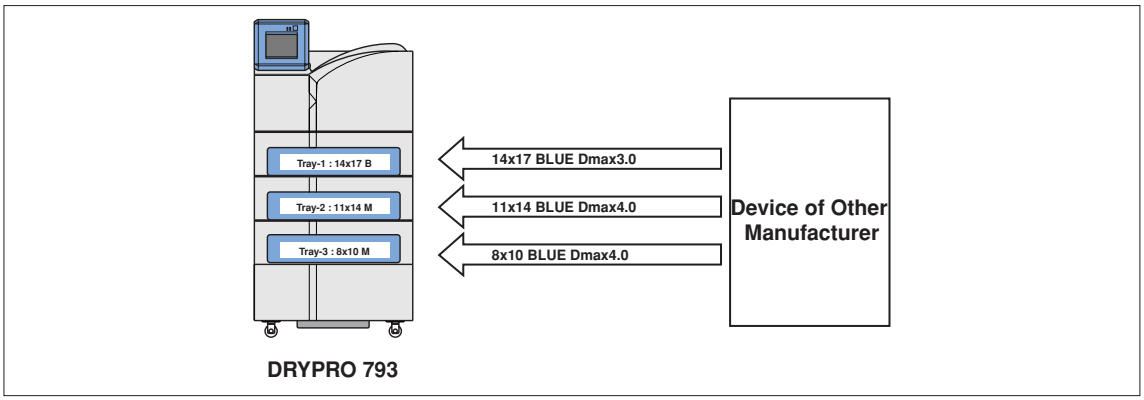
Connection with Devices of other Manufacturers without Printlink

To send a direct output command from the device that cannot change the Dmax, the following settings must be made in DRYPRO 793.

[PRINT SETUP]
  [PRINT CONDITION]
    [Maximum density] : "400"
    [Maximum/minimum density value used] : "DICOM"
    [Parameter priority setting] : DENSITY MAX set to ON.

p.110 PRINT CONDITION SETUP

	SCU Setting Size Type Check
DRYPRO 793	OFF



1.3 Installation Preparations

The following items should be checked before proceeding with installation.

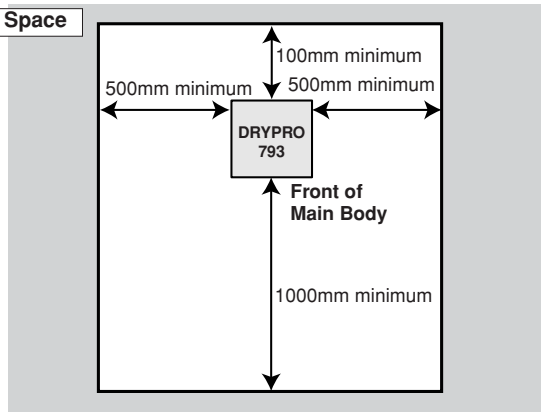
1.3.1 1Checking Installation Conditions

Check to ensure that the place of installation meets the following requirements.

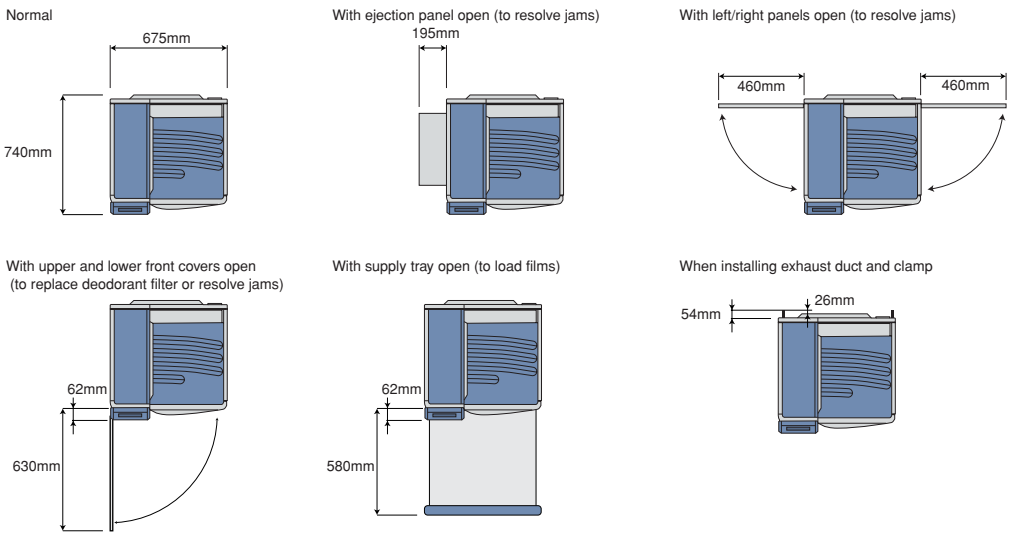
Checking the Place of Installation

- There must be no risk of exposure to water.
- There must no risk of exposure to the harmful effects of high pressure, extreme temperatures, humidity, poor ventilation, direct sunlight, dust, salt, combustible gases or sulphur.
- There must be no risk of tilting, exposure to vibration or shock (including transport).
- There must be no chemicals must be stored at the place of installation.
- There must be no risk of gaseous emissions.
- Ventilation must be sufficient to disperse any odours produces by DRYPRO 793.
- There must be sources of noise in the vicinity.
- There must be sufficient space to ensure that there will be no risk of tripping over or pulling on power or ethernet cables.
- There must be sufficient space to ensure that air inlets and outlets at the side and rear of the unit are not obstructed.
- The installation space must meet the dimensional requirements shown below.

Installation Space

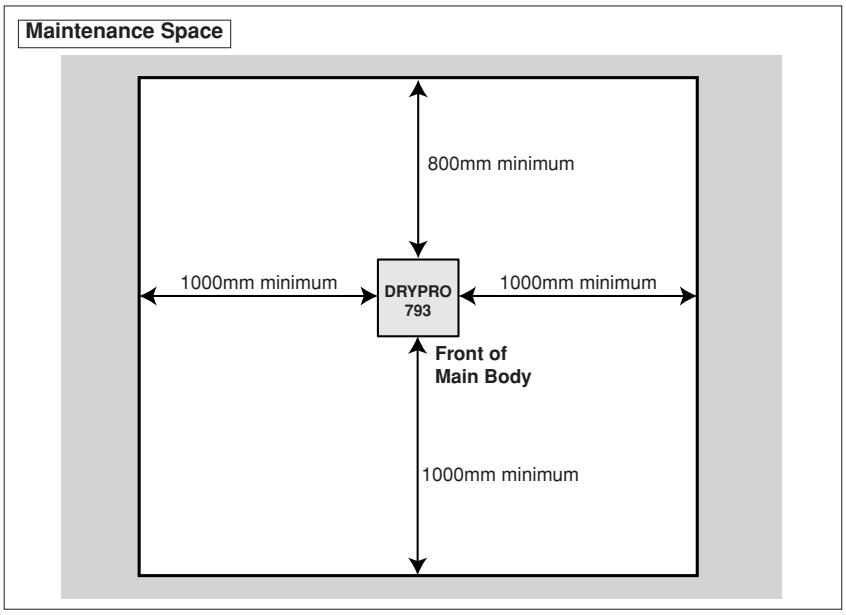


Maximum Space Requirements for DRYPRO 793



Checking Maintenance Space

Check to ensure that the place of installation allows for the maintenance space dimensions shown below.



Checking Power Supply Conditions

Check to ensure that a power outlet meeting the requirements below is available at the place of installation.

- Voltage : AC120V (UL), AC220V-240V (CE)
- Frequency : 60Hz (UL), 50/60Hz (CE)
- Maximum current consumption: 9A(UL), 4.5A(CE)
- Ground : Type D

Checking the Place of Unpacking

Check to ensure that a space of 2.5m or more is allowed at the front (the side where the locking screws are located) of the palette.

When unpacking DRYPRO 793, be sure to unload the unit from the front of the palette.

Checking the Route of Transportation

Check to ensure that the route from the place of unpacking and the place of installation meets the following requirements.

- Ensure that there are no steep gradients or steps that are likely to expose DRYPRO 793 to shocks during transport.
- Ensure that entrances into and exits from any rooms through which DRYPRO 793 will be transported are of adequate dimensions to allow safe passage.
- Ensure that the floors on the rout of transportation are capable of supporting the weight of DRYPRO 793 (approximate weight: 255kg (without sorter), 285kg (with sorter) without warping or buckling.

Checking the Area where Power and Ethernet Cables will be Laid

The person responsible for laying cables must check the following items.

- The location of the hub to which DRYPRO 793 will be connected, the route along which the Ethernet cable will be laid and the required cable length.
- The location of the power outlet (3P) to which DRYPRO 793 will be connected, the route along which the power cable will be laid and the required cable length. Check also to ensure that cables will be laid along a safe route, not, for example, crossing corridors.

1.3.2 Checking the Network

The following points should be checked with the facility network administrator in advance of installation.

DRYPRO 793 (SCP) Related Settings

p.93 SCP SETUP

- IP addresses and sub-net masks (when DHCP server is not used) of DRYPRO 793, maintenance PC and gateways.
- DRYPRO 793 host name.
- DRYPRO 793 AE title and port number (print service).

Diagnostic Device Related Settings

p.96 SCU SETUP

- Number of diagnostic devices connected to DRYPRO 793.
- IP address of each diagnostic device.
- AE title of each diagnostic device.
- Port number of each diagnostic device (N-EVENT REPORT service).
- Print conditions used by each diagnostic device (format, film size).

1.3.3 Equipment and Tools Required for Installation

Before proceeding with installation, check to ensure that the following equipment and tools are available.

Maintenance PC

- Model with 10BaseT/100BaseTX/1000BaseT network ports.
- PC with TCP/IP protocol installed.
- PC with Windows2000/XP OS.
- PC with Internet Explorer (version 5.5 or higher).
- PC with environment capable of executing Java script with the Web browser.

Equipment for Network Connection

- Hub (Used for direct connection to DRYPRO 793 and maintenance PC).
  Hub with auto-negotiation capabilities as 100Base-TX hub recommended.
- Ethernet Cables
  (For DRYPRO 793 -> Hub connection and maintenance PC -> Hub connection)
  CAT5E or CAT6 should be used for 1000Base-T.

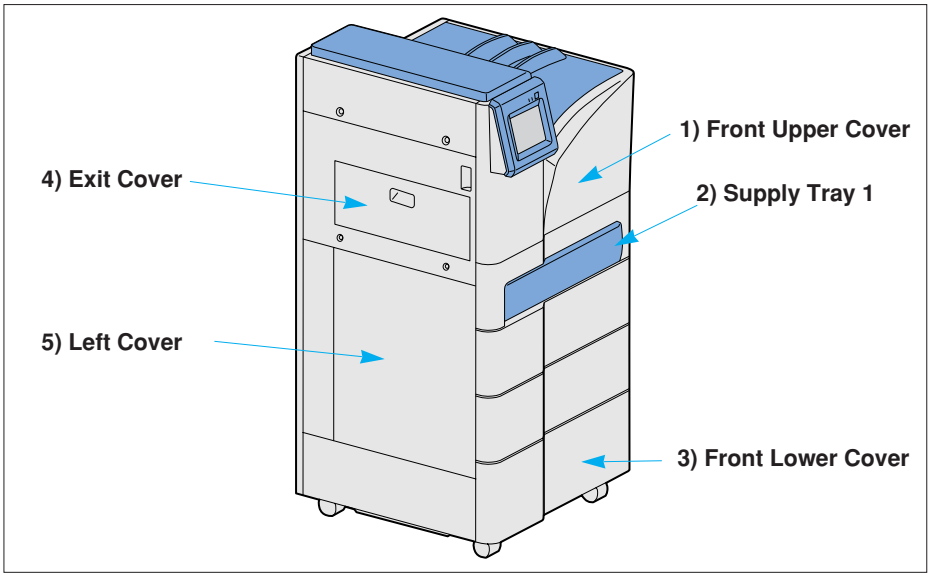
Tools

- Box Cutter
- Phillips screw driver
- Long phillips screw driver (90mm or longer) for disengaging the front cover lock.
- Flat head screw driver
- Radio pliers
- 13mm box wrench (with a long section below the neck). Alternatively, socket wrench (with extension cover)
- Portable densitometer: X-Rite 331 (used to check image)
- Magnifying glass (used to check image)

1.4 Part Names

DRYPRO 793 Part names required for installation are detailed below.

1.4.1 Front, Top and Left Sides



1) Front Upper Cover
When a film jam occurs I the HPRO (heat processing unit)/cooling unit, open this cover to remove the jammed film. This cover is also opened to replace the deodorant filter.

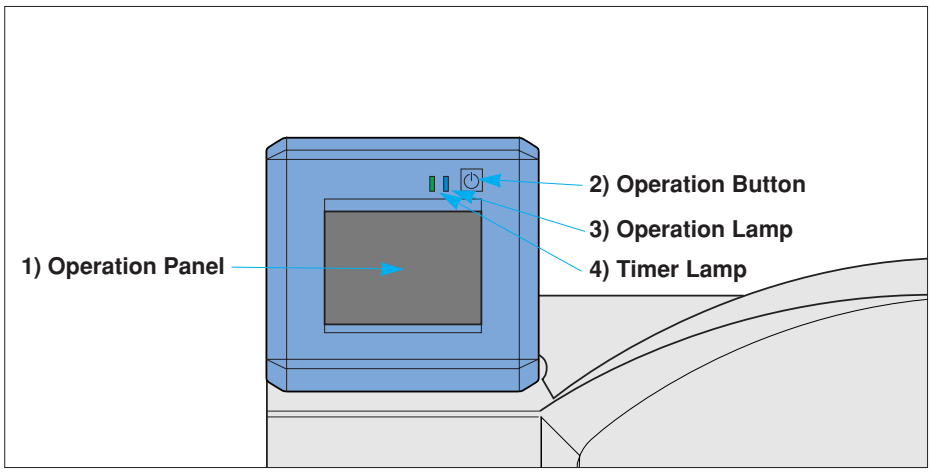
2) Supply Tray 1
(Standard: 1 tray, with option: 3 trays)
Film is loaded in these trays.

3) Front Lower Cover
When a film jam occurs in the descent or elevator transport units or the film justification unit, this cover may be opened to remove the jammed film. It is also possible to access the film from this opening and feed it through to the left or right covers.

4) Exit Cover
When a film jam occurs in the ejection unit, this cover may be opened to remove the jammed film.

5) Left Cover
When a film jam occurs in the descent transport unit, this cover may be opened to remove the jammed film.
This cover may also be removed to carry out cleaning of the cleaning roller.

1.4.2 Operation Panel



1) Operation Panel
Operates and performs various setting for DRYPRO 793. Also displays various messages.

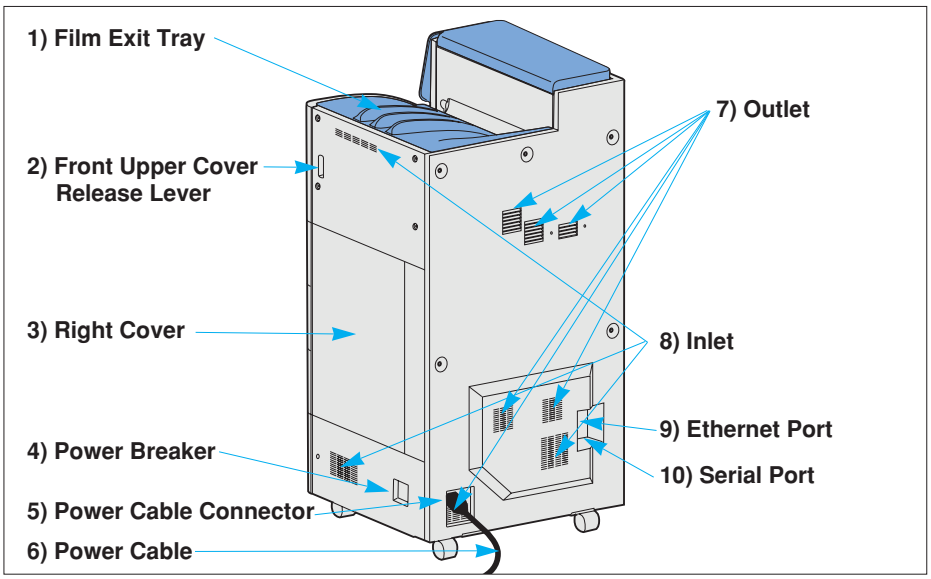
2) Operation Button
Starts up or shuts down DRYPRO 793.

3) Operation Lamp

Operating	: Constant blue
Start Timer ON	: Constant blue
Shutdown Processing	: Flashing blue
Power OFF (breaker ON)	: Constant Orange
Power OFF (breaker OFF)	: Extinguished.

4) Timer Lamp (Green)
Illuminates when the start timer is ON.

1.4.3 Rear and Right Sides



1) Film Exit Tray
Printed films are output to this tray. When an optional 6ch sorter is installed, films are output to the sorter.

2) Front Upper Cover Release Lever
Releases the front upper cover lock when it is necessary to open the cover.

3) Right Cover
When a film jam occurs in the elevator transport unit, this cover may be opened to remove the jammed film.

4) Power Breaker
Turns ON/OFF main power.

5) Power Cable Connector
Connects the power cable.

6) Power Cable
Connects DRYPRO 793 to the facility power outlet.

7) Outlet (4 locations)
Air used to cool the inside of the unit is released from these ports.

8) Inlet(2 on the right side, 1 on the rear side)
Takes in air to cool the inside of the unit.

9) Ethernet Port
Provides connection to the network.

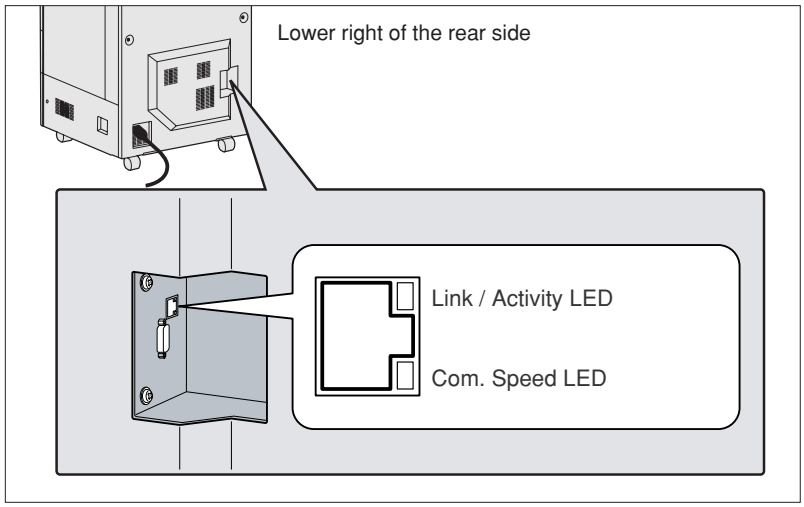
10) Serial Port
The cable from the backup battery, if used, is connected to this port.

p.24 Ethernet Port LEDs

Do not leave films equivalent to one package (= 125 sheets) or more on the Film Exit Tray.

LEDs at the Ethernet Port

Two LEDs at the Ethernet port indicate the following.



- Link/Activity LED

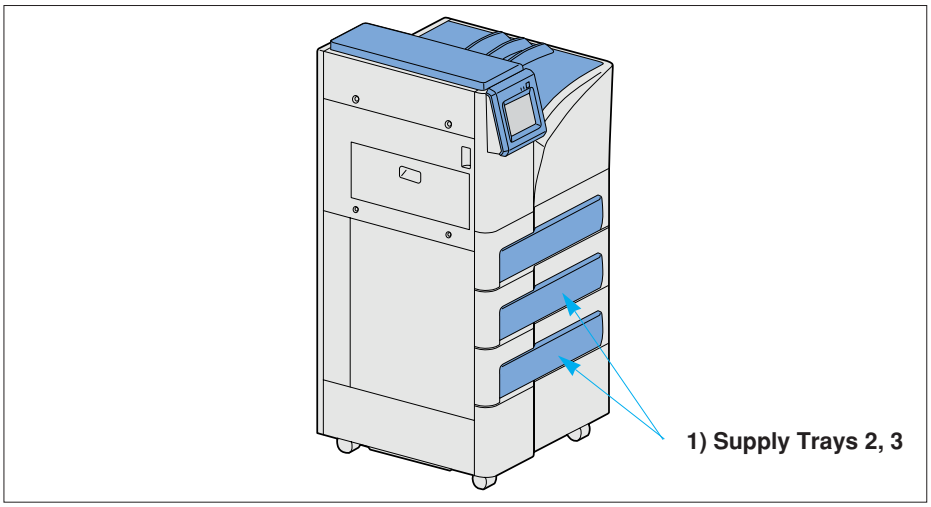
Com. Status	LED
Link	Constant orange
Activity	Constant green

- Com. Speed LED

Com. Status	LED
10Mbps	Extinguished
100Mbps	Constant orange
1000Mbps	Constant green

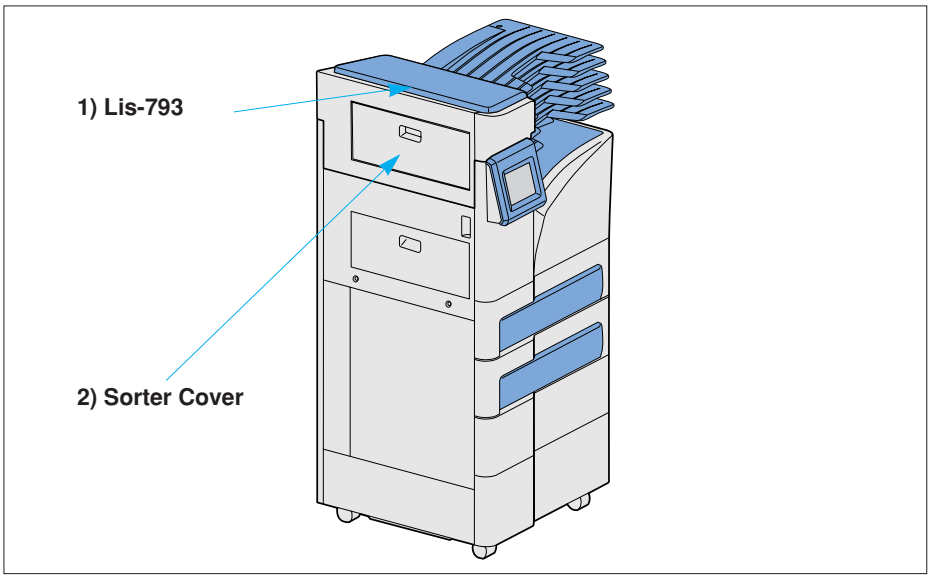
1.4.4 Options

1. Supply Trays 2, 3



1) Supply Trays 2, 3
Holds film.

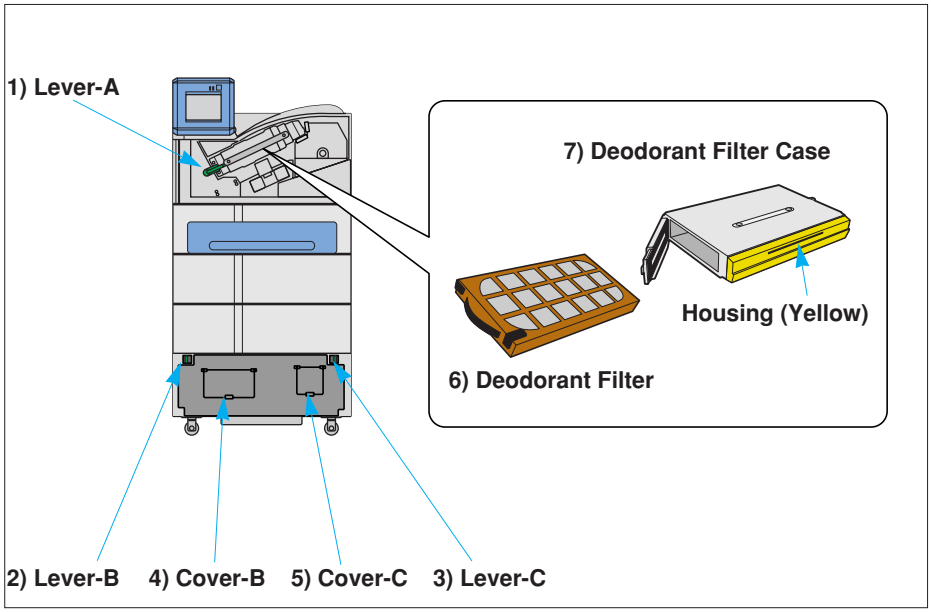
2. Lis-793



1) Lis-793
Printed films are output to 5 bins in the sorter and to to the film exit tray, depending on the set-up.

2) Sorter Cover
When a film jam occurs in the sorter transport unit, this cover may be opened to remove the jammed film.

1.4.5 Interior



1) Lever-A (Green)
Locks the deodorant filter case.

2) Lever-B (Green)
Used when opening the left cover.

3) Lever-C (Green)
Used when opening the right cover.

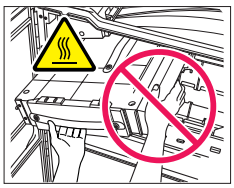
4) Cover-B
When a film jam occurs between the descent transport unit and the justification unit, this cover may be opened to feed the jammed film to the descent transport unit.

5) Cover-C
When a film jam occurs between the justification unit and the elevator transport unit, this cover may be opened to feed the jammed film to the elevator transport unit.

6) Deodorant Filter
Removes odours generated during heat processing. This filter must be changed regularly.

7) Deodorant Filter Case
Contains the deodorant filter. To change the deodorant filter, open the deodorant filter case cover. When a film jam occurs between the HPRO and the film discharge units, the deodorant filter case may also be removed to remove the jammed film.

Be careful not to touch the deodorant filter housing (yellow) when pulling out the deodorant filter case. The housing carries temperatures in excess of 100℃ and may cause burns if touched.



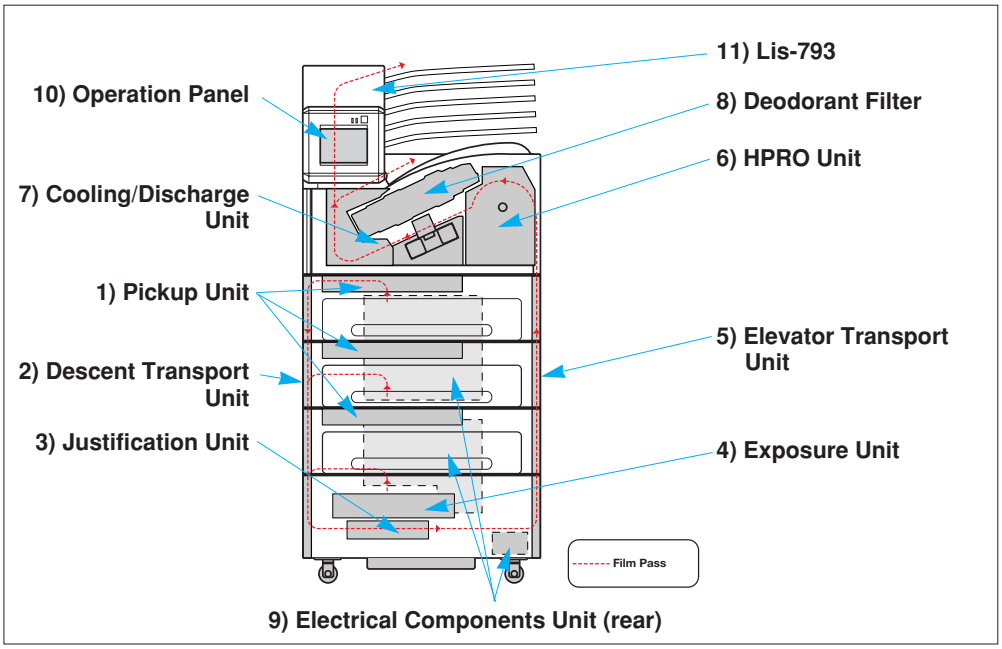
Levers and knobs in the DRYPRO 793 are painted in different colors depending on the purpose of use.

Blue : For maintenance and inspection
Green : For removal of jam films.

1.5 Structure

The internal structure of DRYPRO 793 is shown below.

Film is transported in sequence from (1) through (7) during the printing process.



1) **Pickup Unit (incorporated in each tray)**
Picks up films in the pickup unit one by one and feeds them to the descent transport unit.

2) **Descent Transport Unit**
Feeds films picked up from the supply unit to the justification unit.

3) **Justification Unit**
Aligns the right and left edges of the film received from the descent transport unit and feeds it to the exposure unit.

4) **Exposure Unit (a: Sub-scan unit, b: Main scan unit)**
Performs laser scanning in synchronization with film transport and prints an image on the film.

5) **Elevator Transport Unit**
Feeds the film to the HPRO (heat processing) unit after exposure.

6) **HPRO Unit**
Heat-processes the exposed film.

7) **Cooling/Discharge Unit**
Cools and discharges heat-processed film.

8) **Deodorant Filter**
Removes odours generated during heat processing. The deodorant filter be changed regularly.

9) **Electrical Components Unit**
Consists of the power pickup unit that supplies power to the device and the control unit for that controls the entire device, communication with diagnostic devices and image processing/control.

10) **Operation Panel**
Used to operate of and make settings for DRYPRO 793.

11) **Lis-793 (Option)**
Ejects the film discharged from the main body to the specified bin number.

Chap. 2

Unpacking and Installation

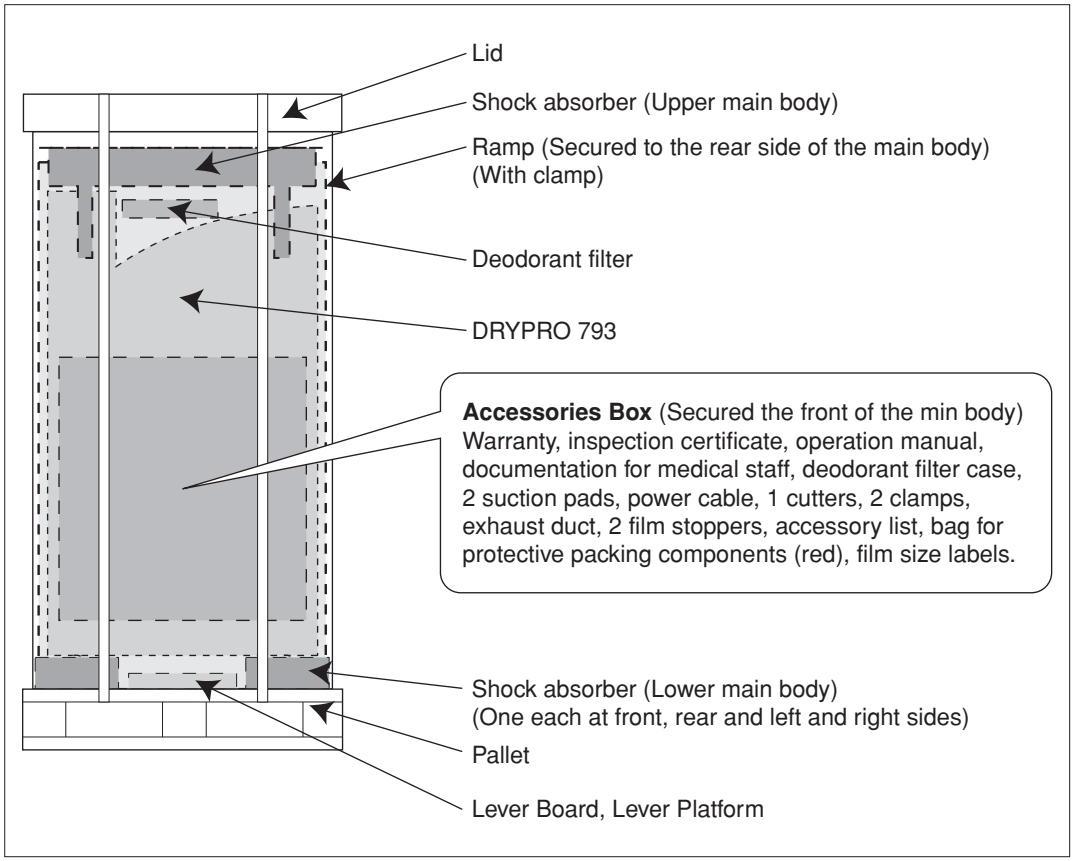
This chapter details procedures for unpacking and installing DRYPRO 793.

2.1 Packing List

This list shows all components included in the DRYPRO 793 packing. A check should be carried out to ensure that all components are present. If any components are missing, the package should be processed as an incomplete consignment.

2.1.1 DRYPRO 793 Main Body

The components packed with DRYPRO 793 are shown below.


Lid
Shock absorber (Upper main body)
Ramp (Secured to the rear side of the main body)
(With clamp)
Deodorant filter
DRYPRO 793
Accessories Box (Secured the front of the min body)
Warranty, inspection certificate, operation manual, documentation for medical staff, deodorant filter case, 2 suction pads, power cable, 1 cutters, 2 clamps, exhaust duct, 2 film stoppers, accessory list, bag for protective packing components (red), film size labels.
Shock absorber (Lower main body)
(One each at front, rear and left and right sides)
Pallet
Lever Board, Lever Platform

p.35 Checking Accessories

2.1.2 Supply Tray (Option)

The components packed with supply tray are listed below.

Component Name	Quantity	Remarks
Tray Unit	1	Includes accuride rails
Pick up Unit	1	
Accuride Rails	2	
Cable (CH3 Signal Assy)	1	Pickup Unit ~ Mech Cntl Board
Cable (CH3 Power Assy)	1	Pickup Unit ~ Power IF Board
Pick-up Unit Securing Component (For right side of main body)	1	
Pick-up Unit Securing Component (For left side of main body)	1	
Cutter	1	
TP screws M4X8	6	Fixing screw
Truss Screws M4X6	2	Screws for external covers.
Front Cover Unit Assembly	1	
Tray Cover Assembly	1	

2.1.3 Lis-793 (Option)

Use of the Lis-793 option enables discharged film to be allocated to six bins.
The components packed with the Lis-793 option (6ch sorter) are listed below.

Component Name	Quantity	Remarks
Sorter main body	1	
Sorter Separation Unit	1	
Sorter Exterior Assy	2	Sorter face cover, Sorter left cover
Sorter Exterior	2	Sorter front and rear covers
Blindfold Plate	1	
Support	1	Used to secure bins
Retaining Plate	1	Bracket used to hold down bin from the top.
Stand	1	Support Bearing
Bin	5	
Roller Bush	2	
Cable (Sorter Signal Assy)	1	Connects the unit drive board to the mechanical control board
Cable (Sorter Power Assy)	1	Connects the unit drive board to the power IF board.
TP screws M4X8	13	Screws for attaching components
Sems 2 M3X6	2	Used to attach wire to sorter cover.
Truss Screws M4x8	7	Screws for external covers.

2.1.4 1GB Print Memory (Option)

This memory increases the DRYPRO 793 image processing speed. The 1GB print memory is essential for 25μm output using the Regius-PCM system.
The components packed with the 1GB print memory are listed below.

Component Name	Quantity	Remarks
1GB Print Memory	1	

2.1.5 Multi-client License (Option)

This a license allowing connection of devices of other manufacturers for direct DICOM input. One license must be purchased for each device.
The components packed with the multi-client license are listed below.

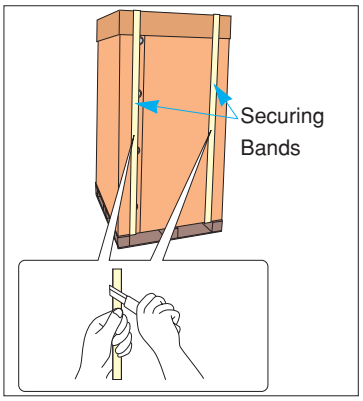
Component Name	Quantity	Remarks
License Card	1	To be handed to the user.
License Seal	1	To be affixed to the DRYPRO 793 main body.

2.2 Unpacking

The procedure for unpacking DRYPRO 793 is detailed below.

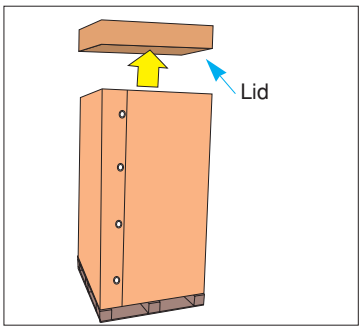
The weight of the main body of DRYPRO 793 is approximately 255Kg (without sorter)/285kg (with sorter). The weight of the unit with packing is approximately 313.5kg (without sorter). Care must be taken during transportation and sufficient space must be allowed for ease of handling.
Unloading DRYPRO 793 from the palette must be carried out by two workers. Additionally, a minimum space of 2.5m must be allowed at the front of the palette (the side where the lock pieces are located) when unpacking the unit.

Disposal of the packing materials should be carried out in accordance with relevant local ordinances and regulations.

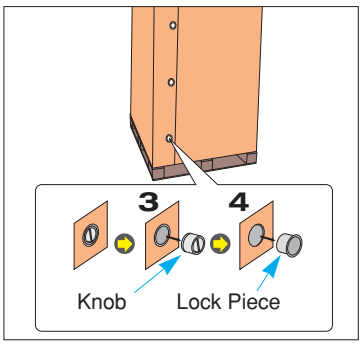


1 Cut the securing bands while holding down with one hand.

Do not stand in front of the securing bands. The bands are fastened tightly and may hit any personnel standing nearby when cut.



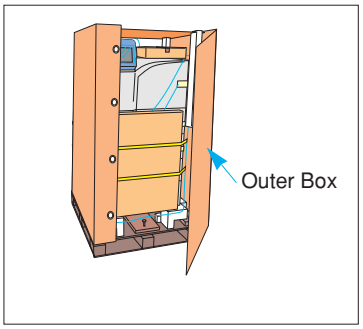
2 Remove the lid from the outer box.



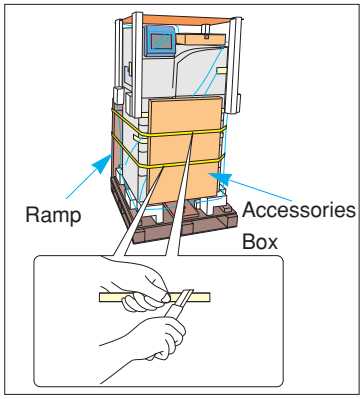
3 Unscrew the knobs securing the lock pieces by turning to the left and remove from the outer box.

Using radio pliers to turn the knobs will facilitate removal.

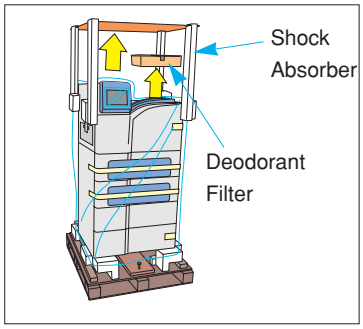
4 Remove the four lock pieces from the outer box.



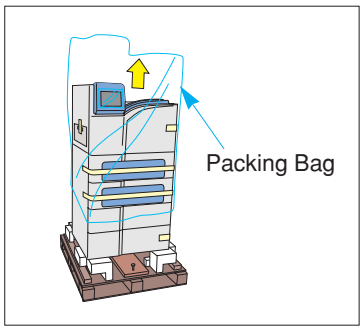
5 Open and remove the outer box.



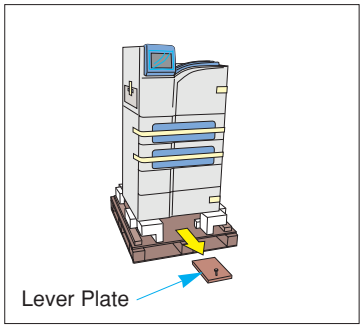
6 Cut the bands securing the ramp (attached to the rear of the main body) and the accessories boxes (attached to all sides of the main body) and set the ramp in a place where it will not obstruct unloading work.



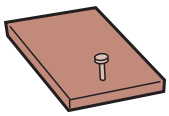
7 Remove the box containing the deodorant filter and the upper shock absorber.

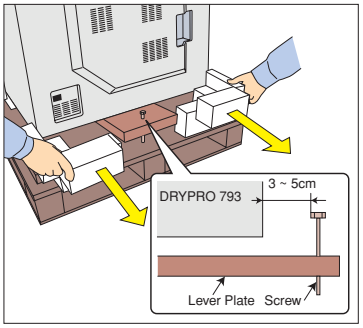


8 Remove the packing bag covering the main body.



9 Remove the lever plate from the underside of the DRYPRO 793 main body.





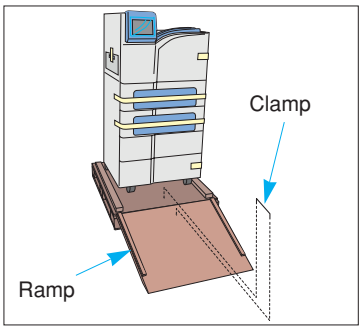
10 Insert the removed lever plate frame from the rear between the main body and the palette as illustrated.

11 Raise the main body by turning the lever plate screw using a socket wrench with ratchet and remove the shock absorbers from the underside of the main body.

12 Likewise, raise the main body from the front and remove the shock absorbers from the underside of the main body.

Be careful not to allow hands to become trapped when removing the shock absorbers from the underside of the main body.

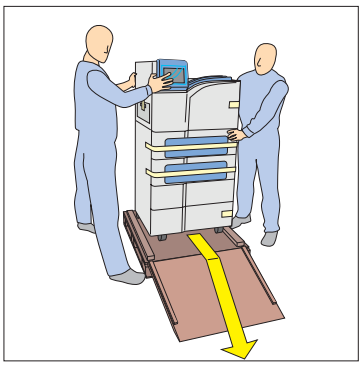
Be sure to remove the shock absorbers from the rear of the main body before removing those at the front.
This is because, while an anti-tilt plate is furnished on the side where the casters are located at the rear of the main body, there is no anti-tilt plate at the front.



13 Set the ramp removed in step-**6** at the front of the palette.

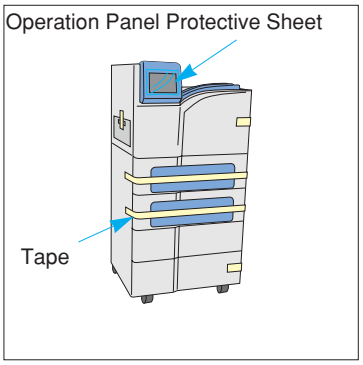
- **The non-tapered side is the front.**

14 Remove the clamp taped to the back of the ramp and secure the palette and the ramp.



15 Supporting the unit from left and right sides (one worker at each side), slowly slide the DRYPRO 793 down the ramp and off the palette.

Be sure that no one is standing in the path of the DRYPRO 793.
If the unit should topple, anyone standing in the way may be injured.



16 Remove tape securing the supply trays and covers.

17 Remove the protective sheet from the operation panel.

2.3 Checking Accessories

The accessories listed below are provided with DRYPRO 793. Check to ensure that all accessories are present. If any components are missing, the package should be processed as an incomplete consignment.

Component	Quantity	Remarks	Page
Warranty	1	To be handed to the user after installation.	–
Inspection Certificate	1	To be handed to the user after installation.	–
Operation Manual	1	To be handed to the user after installation.	–
Attached documents	1	To be handed to the user after installation.	–
Deodorant Filter	1	To be installed during installation.	00
Deodorant Filter Case	1	To be installed during installation.	00
Suction Cup	2	For film pick up by the pick up unit.	–
Power Cable	1	For power supply.	00
Cutter	2	Cuts and removes the film package when film is loaded.	00
Clamp	2	Used to connect the network cable at the rear of the main body.	00
Exhaust Duct	1	Used for exhaust direction control, noise reduction.	00
Film Holder	2	Used to prevent blockage of the outlet at the rear side. (installation optional)	00
Accessory List	1		–
Bag for Protection Hardware (red)	1	Holds Protection hardware removed during installation.	00
Film Size Label	1	Shows the film size of film loaded in the tray. To be affixed to the supply tray cover.	00

2.4 Removing Protection Hardware (Red) Parts and Installing Optional Units

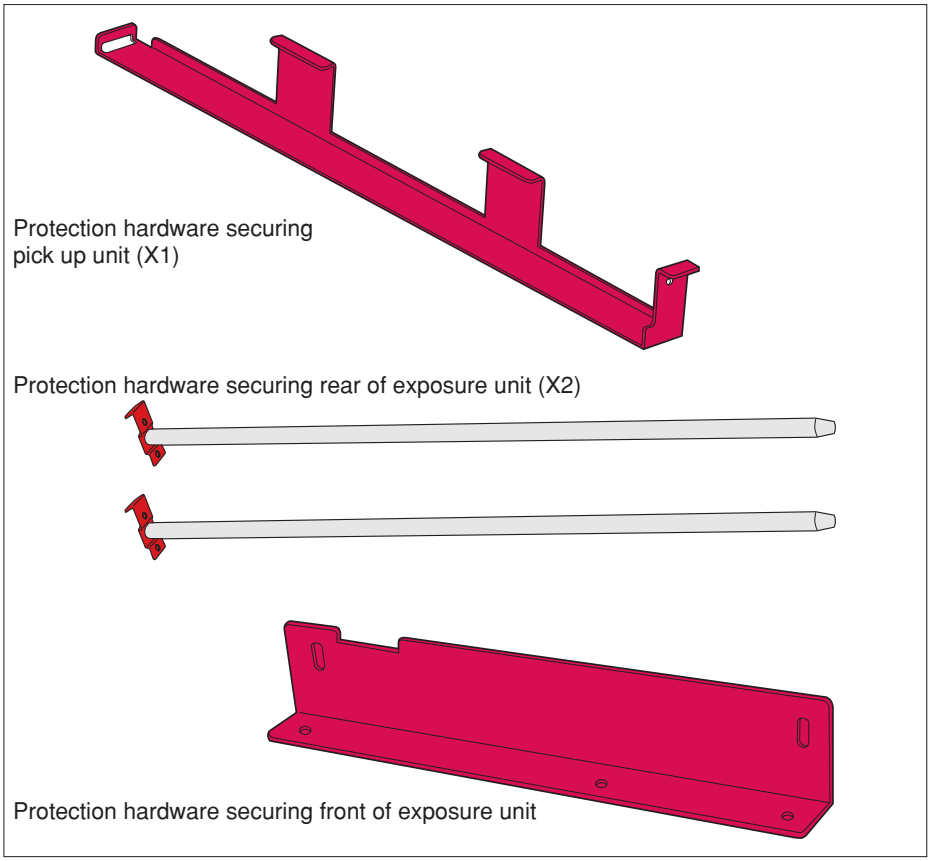
Protection hardware are set inside the device to prevent potential damage to internal components caused by exposure to shock or vibration during transport.

Protection hardware must be removed in the sequence set out in this manual after transporting the device to the place of installation.

2.4.1 Protection Hardware (Red) List

The protection hardware in DRYPRO 793 are listed below.

Protection hardware (Red) Type		Page
Hardware securing rear of exposure unit (X1)	Protects the rear side of the exposure unit.	00
Hardware securing front of exposure unit	Protects the front side of the exposure unit.	00
Protective film on exposure unit conveyor roller	The exposure unit conveyor roller is protected by two films.	00
Hardware securing pick up unit (X2)	Protects each of the pick up units.	00
Protective sheet of heat processing drum	Protects the heat-processing drum.	00

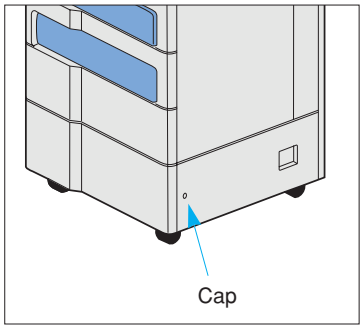

Protection hardware securing pick up unit (X1)
Protection hardware securing rear of exposure unit (X2)
Protection hardware securing front of exposure unit

Since protection hardware may be used again, they must be placed in the bag provided after removal and returned to the manufacturer.

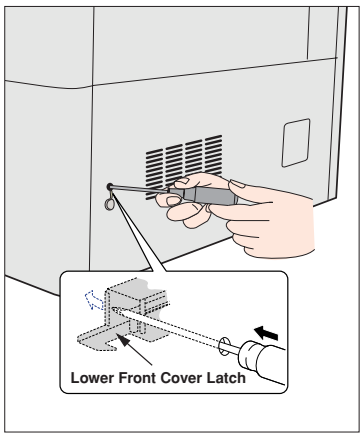
Operating DRYPRO 793 with protection hardware still inside may result in damage to the unit.

2.4.2 Removing Protection Hardware Securing Back of Exposure Unit

The procedure for removal of the components securing rear of exposure unit is described below.

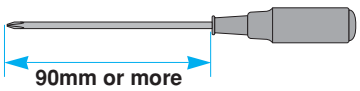


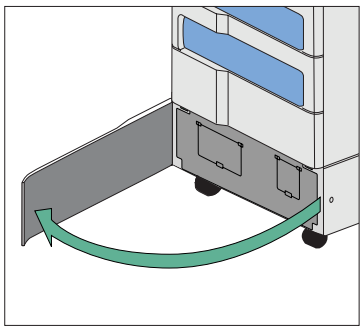
1 Use fingers to remove the cap located at the bottom of the right side of the main body.



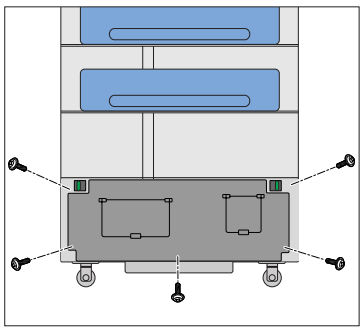
2 Disengage the lower front cover lock by inserting a driver with a shaft length of 90mm or more shown below into the hole revealed at the right side of the main body by removal of the cap and pressing until a click is heard.

- This will disengage the lower front cover lock.



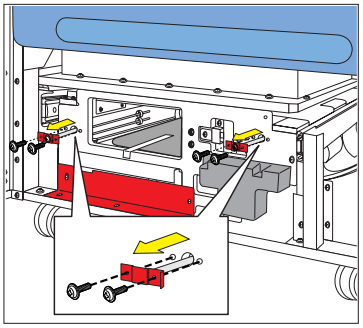


3 Open the lower front cover.

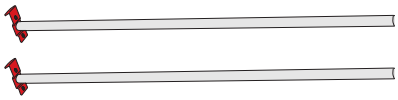


4 Remove the five screws (TP screws M4X8) securing the exposure unit cover and remove the cover.

Be careful not to make mistakes with the locations of removed screws.
Locations should be clearly marked for identification before screws are removed.



5 Remove the two screws (TP screws M4X8) at the outer edges of the protection hardware securing the rear of the exposure unit, leaving the third securing screw in place, and horizontally pull out the protection hardware.

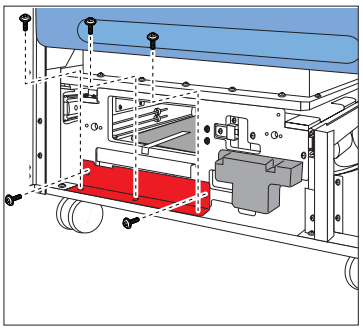


- Proceed to removal of the protection hardware securing the front of the exposure unit (2.4.3).

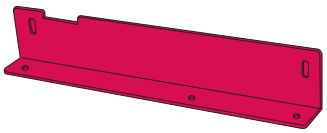
Be sure to keep the protection hardware securing the rear of the exposure unit horizontal when pulling them out. Failure to do so may result in the tips of the components impacting on internal components causing damage.

2.4.3 Removing Protection Hardware Securing Front of Exposure Unit

The procedure for removal of the hardware securing the front of the exposure unit is described below.



1 Remove the five screws (TP screws M4X8) securing the protection hardware at the front of the exposure unit and remove the component.

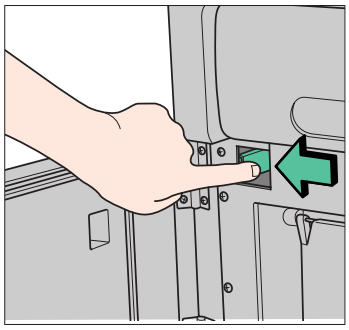


- The exposure unit cover and lower front cover should be left open for access during subsequent procedures.

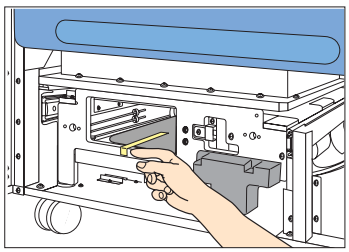
- Proceed to removal of the protective film on the exposure unit conveyor rollers (2.4.4).

2.4.4 Removing Protective Film from Exposure Unit Conveyor Rollers

After removal of the protection hardware at the front of the exposure unit, 2 protective films should be removed from the exposure unit conveyor rollers.

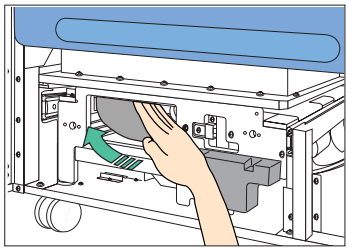


1 Open the left cover by pressing lever-B (green).

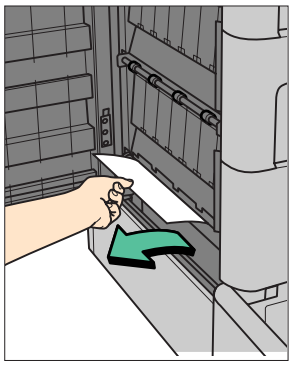


2 Remove the tape securing the exposure unit conveyor roller protective film to the DRYPRO 793 main body.

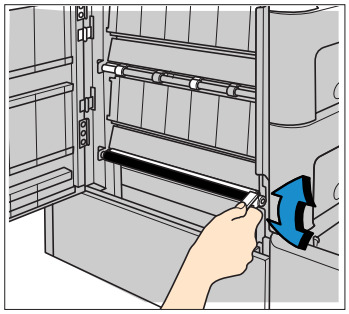
- **The protective film is inserted between exposure unit conveyor rollers.**



3 Feed the sheet of exposure unit conveyor roller protective film through to the left cover.



4 Remove the sheet of film collected at the descent transport unit.



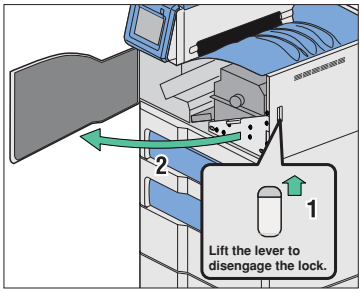
5 クリーニングローラーの固着による装置故障を防止するため、レバーを2～3回上下します。

・クリーニングローラーが回転します。

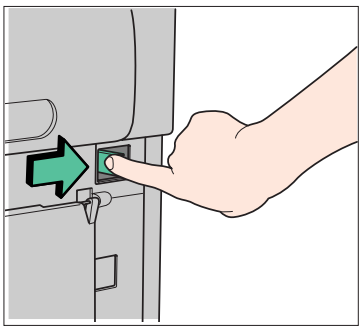
- **The exposure left and front covers should be left open for access during subsequent procedures.**
- **Proceed to removal of the protection hardware securing the pick up units (2.4.5).**

2.4.5 Removing Protection Hardware Securing Pickup Unit (X 1 trays)

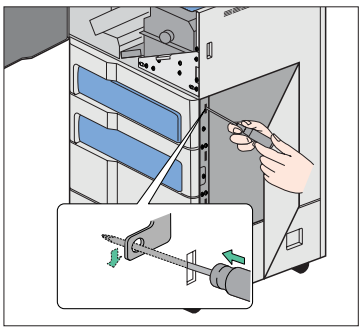
After removal of the protective film from the exposure unit conveyor rollers, the protection hardware securing the supply tray 1 pick units should be removed.



1 Disengage the upper front cover disengaging lever and open the upper front cover.

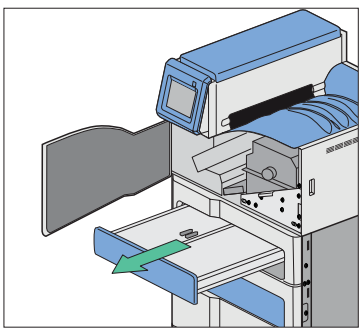


2 Press lever C (green) and open the left cover.

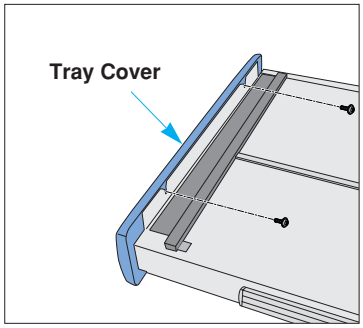


3 Disengage the supply tray 1 lock by inserting a driver with a shaft length of 90mm or more shown below into the hole at the right side of the main body and pressing down the latch.

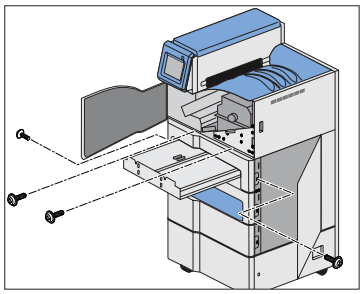
- **This will disengage the supply tray 1 lock.**



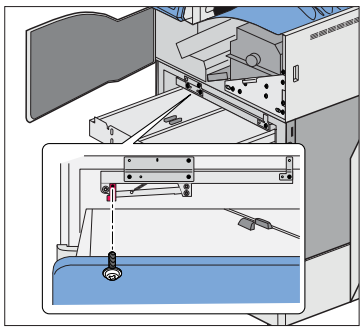
4 Pull out supply tray 1 to its fullest extent.



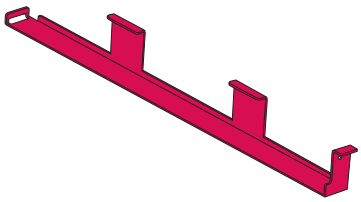
5 Loosen the 2 screws (TP screws M4X8) and remove the supply tray 1 cover.



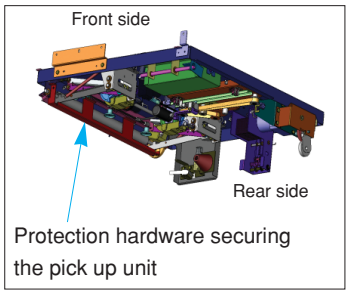
6 正面のネジ2本(TPネジM4x8)を外し、両端のネジ各1本(TPネジM4x8)を緩めて, and remove the supply tray 1 front cover.



7 Remove the screw (TP screw M4X8) securing the protection hardware securing the pick up unit and remove the component.



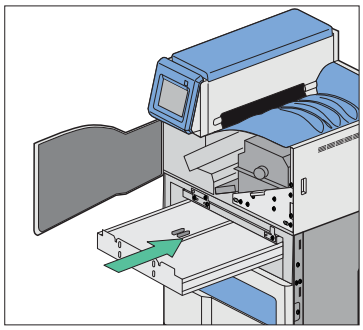
- **Removing the screw and pulling the protection hardware forward a little will release the section securing the rear of the pick up unit enabling removal of the component.**



View of underside of pick up unit with protection hardware in place

When removing the protection hardware securing the pick up unit, be careful not to cause damage with the outer edges of the component

Since protection hardware may be used again, they must be placed in the bag provided after removal and returned to the manufacturer.



8 Return supply tray 1 to its position in the main body.

- **Removing the screw and pulling the protection hardware forward a little will release the section securing the rear of the pickup unit enabling removal of the component.**

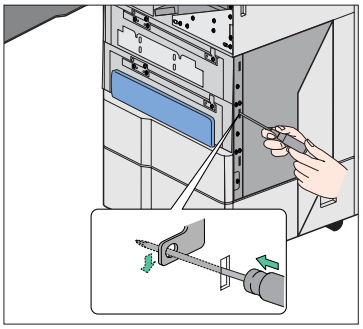
- **The procedure for installation of supply tray 2&3 (option) is described on the following page.**
  If supply tray 2 &3 is not to be installed, proceed to installing covers (1) (2.4.7).

To set the protection hardware back in place in the event that the unit is to be moved, remove the pickup unit before replacing the protection hardware.

2.4.6 Installing Supply Tray (Option)

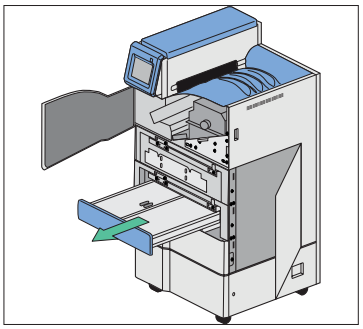
After removal of the protection hardware securing the pickup unit, the optional supply tray 2&3 may be installed.

1 Check to ensure that all supply tray (option) components are included in the consignment.

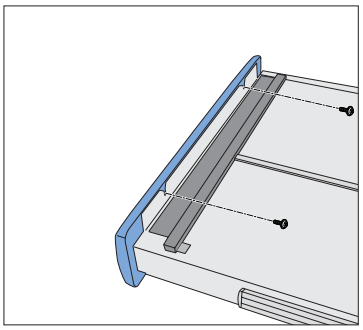


2 Disengage the supply tray 1 lock by inserting a driver with a shaft length of 90mm or more shown below into the hole at the right side of the main body and pressing down the latch.

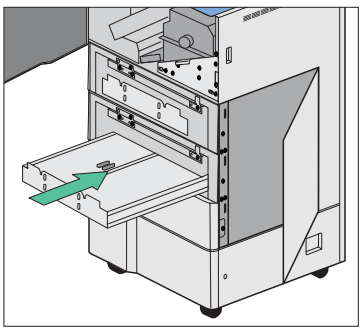
- This will disengage the supply tray 1 lock.



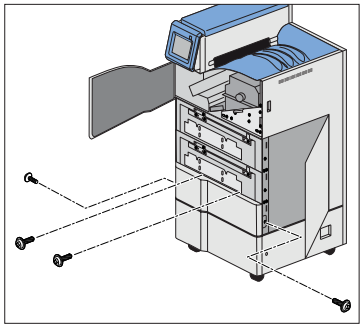
3 Pull out supply tray 1 to its fullest extent.



4 Loosen the two screws (TP screws M4X8) and remove the supply tray 1 cover.



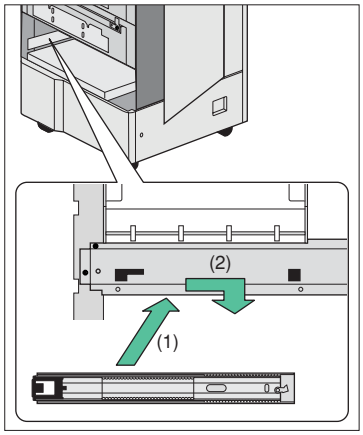
5 Set supply tray 1 in place in the main body.



6 正面のネジ2本(TPネジM4x8)を外し、両端のネジ各1本(TPネジM4x8)を緩めて、 remove the blindfold front cover from supply tray 2.

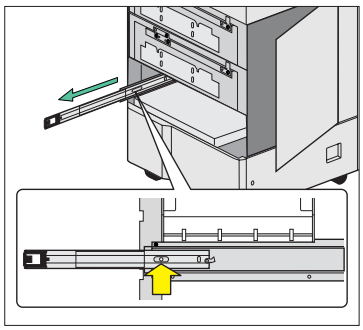
- **The blindfold front cover is no longer needed.**

7 Remove the Accuride rails from the pick up unit.

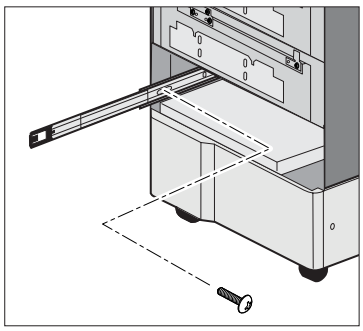


8 Secure the Accuride rails on the slide supports on the inside of the main body.

Accuride rail hooks should be inserted into the square holes in the slide supports (2 holes each at the front and back of the main body).



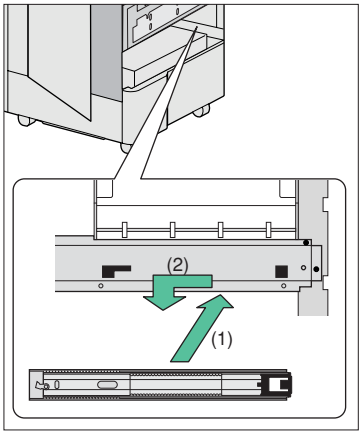
9 Extend the Accuride rails until the screw holes are visible.



10 Secure the Accuride rail with one screw (Truss screw M4X6).

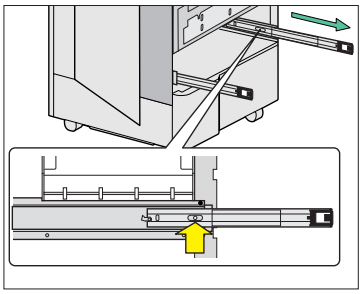
Apply downward pressure on the Accuride while screwing into place.

Removed covers should be kept for use in the event that unnecessary options are removed in the future. Disposal of any unnecessary covers should be carried out in accordance with local ordinances and regulations.

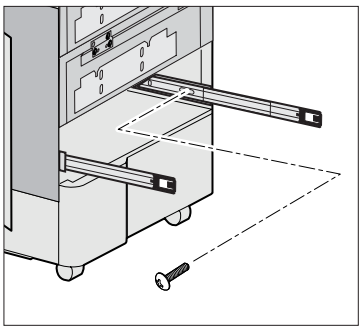


11 Secure the Accuride rail to the slide support at the right side of the main body.

Accuride rail hooks should be inserted into the square holes in the slide supports (2 holes each at the front and back of the main body).

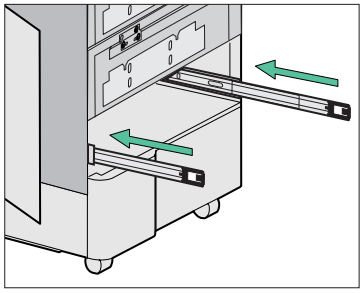


12 Extend the Accuride rails until the screw holes are visible.



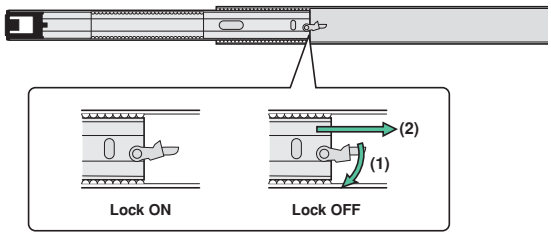
13 Secure the Accuride rail with one screw (Truss screw M4X6).

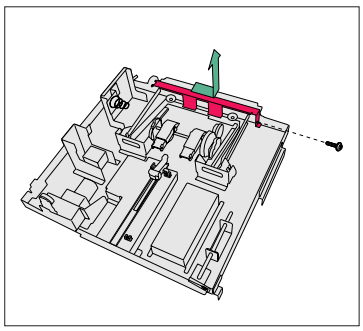
Apply downward pressure on the Accuride while screwing into place.



14 Slide left and right Accuride rails into the main body.

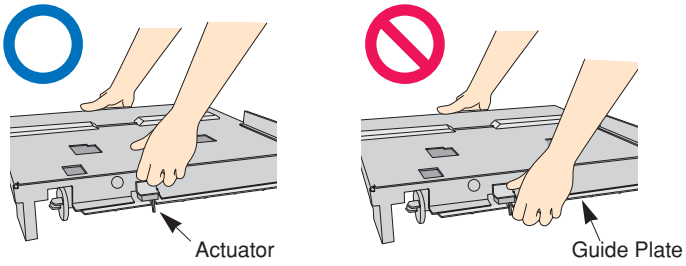
Sliding Accuride rails out to their fullest extent engages a lock rendering it impossible to slide the rails back into the unit. The lock may be disengaged using a finger (1) and then slid back into the unit (2).



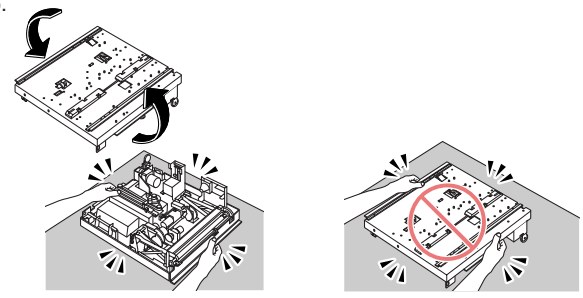


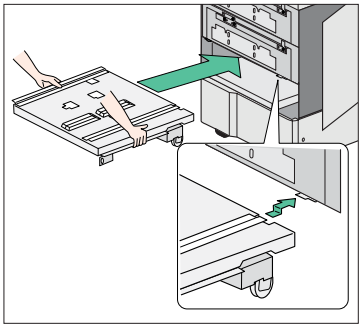
15 Remove the one screw (TP screw M4X8) and remove the protection hardware securing the pickup unit.

When holding the pickup unit, do not hold the guide plate that can be easily deformed.Care should be taken so that the actuator of the passing sensor does not fall off.

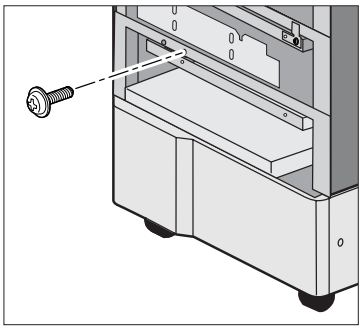


Set the pickup unit down with the side on which components are installed facing up.

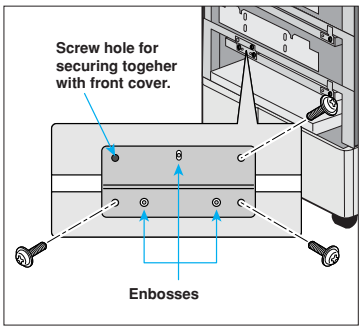




16 Holding the pickup unit by both sides, as illustrated in the photograph, set the unit on the two rails in the main body and set in place.

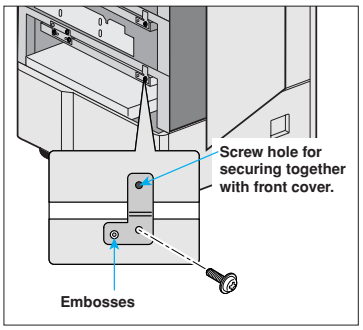


17 Remove one screw (TP screw M4x8) from the position illustrates in the left.



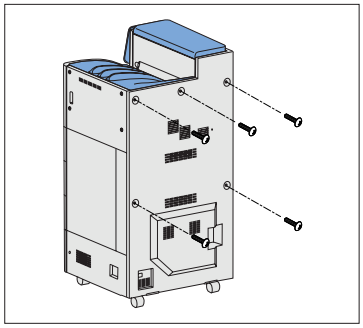
18 Align the embosses to the receptacle holes (one on the main body, two on the pickup unit), secure the hardware for fixing the left side of main unit

The one remaining screw hole is used when installing the front cover.



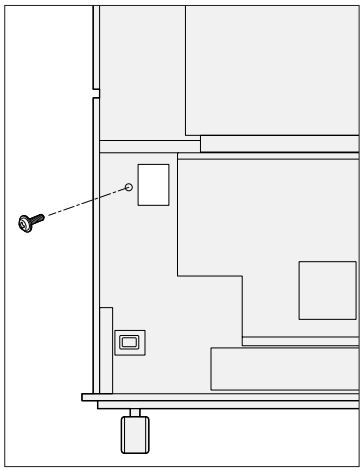
19 Install the pickup unit and the component for securing the right side of the main body in the position shown at left (pickup unit side) using one screw (TP screw M4X8).

The one remaining screw hole is used when installing the front cover.

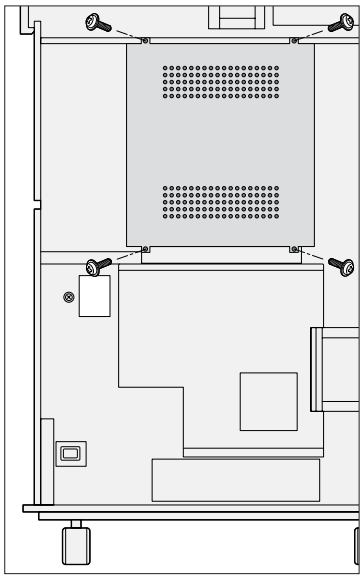


20 Remove the 5 screws (Truss screws M4X8) and remove the rear cover.

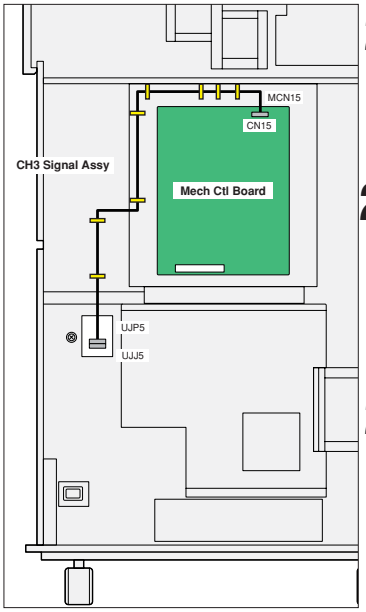
From this point on, the procedure involves handling circuit boards: a wristband must be worn.



21 Secure the pickup unit to the rear side of the main body using one screw (TP screw M4X8) at the location shown at left.



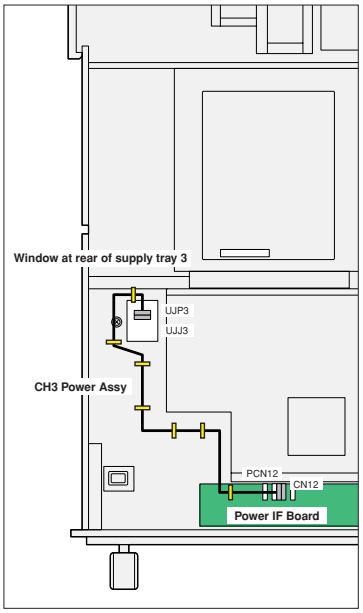
22 Remove the 4 screws (TP screws M4X8) and remove the mechanical control box cover.



23 Connect connector M15 of the accessory cable (CH Signal Assy) to MC15 on the mechanical control board in the main body.

24 Secure the cable (CH Signal Assy) to the DRYPRO 793 main body at the location shown at left (yellow square) using a clamp.

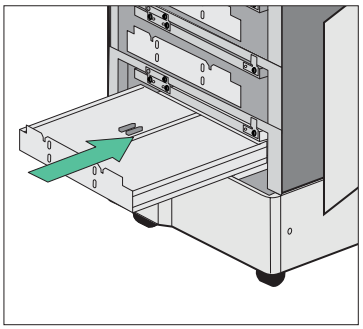
25 Connect connector UJP15 of the cable (CH3 Signal Assy) to relay connector UJJ5 on supply tray 3 visible through the window at the rear of the tray.



26 Connect connector PCN12 of the accessory cable (CH3 Signal Assy) to CN12 on the power interface board located at the bottom of the rear side of the main body.

27 Secure the cable (CH Signal Assy) to the DRYPRO 793 main body at the location shown at left (yellow square) using a clamp.

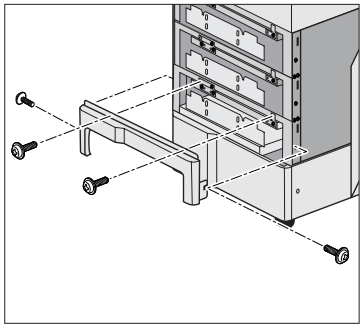
28 Connect connector UJP3 of the cable (CH3 Signal Assy) to relay connector UJJ3 on supply tray 3.



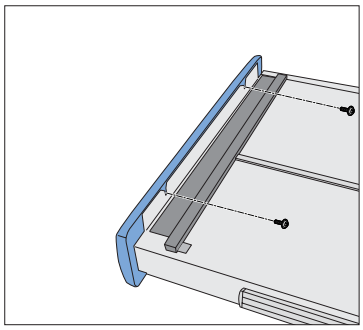
29 Install supply tray 3.

- **If supply tray is a 14-inch tray, change the film size if necessary.**

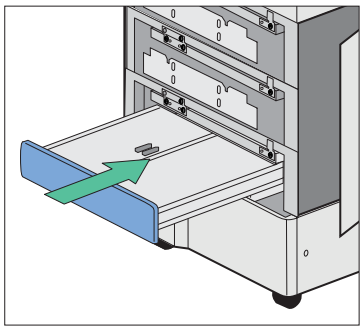
8インチ、または10インチのサプライユニットを取り付けた場合、, slide the tray in and out a few times to ensure that Accuride rails are properly positioned and secured. If the tray does not slide smoothly, reset the Accuride rails.
（12インチのサプライユニットを追加した場合、実施する必要はありません。）



30 Secure the supply tray 2 front cover using 2 screws the front (TP screws M3X6) and one screw at each edge (TP screws M3X6).



31 Secure the supply tray 3 cover into position using 2 screws (TP screws M4X8).



32 Slide supply tray 3 into position into the main body.

If the supply tray configuration has been changed, the tray count setting under "FILM SETUP"(TRAY SETUP) must be adjusted accordingly.

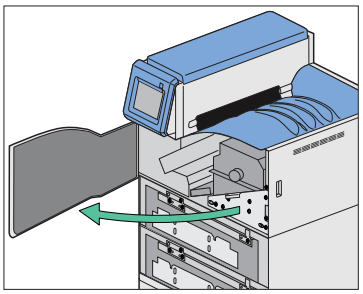
p.88 FILM SETUP

If the supply tray configuration has been changed, adjust and check the image write start position.

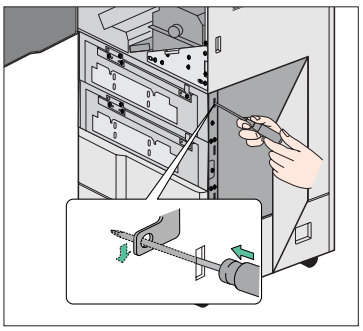
p.154 Image Data Write Position Adjustment

2.4.7 Replacing the Removed covers

This section describes procedures for replacing covers removed during work procedures.

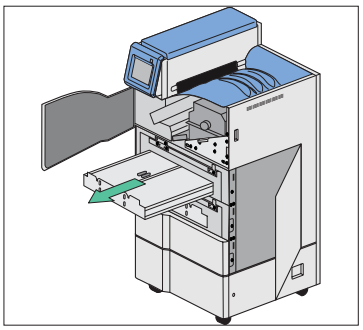


1 Disengage the upper front cover disengaging lever and open the upper front cover.

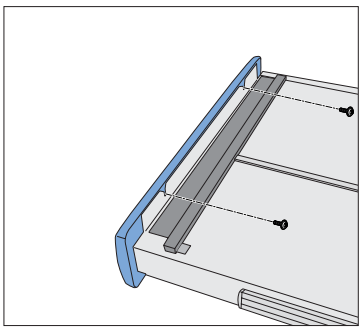


2 Disengage the supply tray 1 lock by inserting a driver with a shaft length of 90mm or more into the hole at the right side of the main body and pressing down the latch.

- This will disengage the supply tray 1 lock.



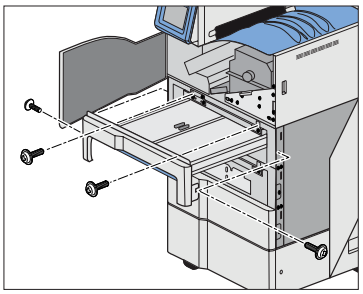
3 Pull out supply tray 1 to its fullest extent.



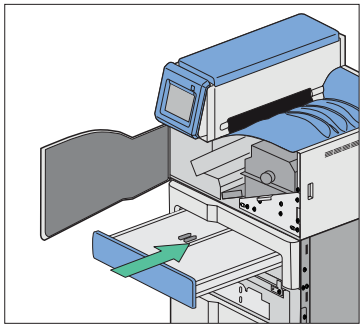
4 Loosen the two screws (TP screws M3X6) and remove the supply tray 1 cover.

5 If necessary, change the supply tray 1 film size.

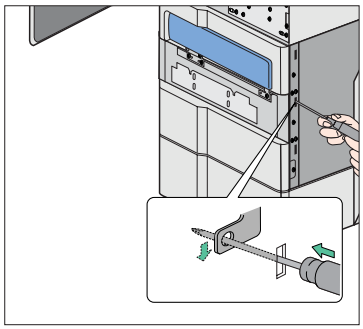
p.77 **Changing the Supply Tray Film Size**



6 Remove the 2 top screws (TP screws M4X8) and the two screws (TP screws M4X8) at the edges (one at each edge) and remove the supply tray 1 front cover.

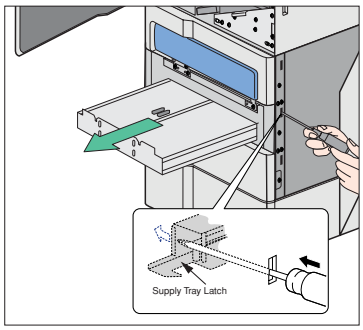


7 Slide supply tray 1 into place.

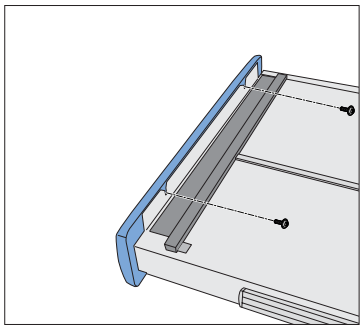


8 Disengage the supply tray 2 lock by inserting a driver with a shaft length of 90mm or more into the hole at the right side of the main body and pressing down the latch.

- This will disengage the supply tray 2 lock.



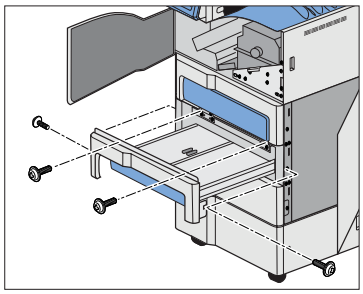
9 Pull out supply tray 2 to its fullest extent.



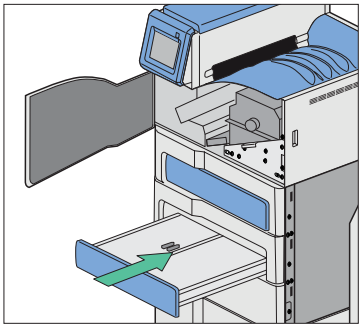
10 Loosen the two screws (TP screws M3X6) and remove the supply tray 1, 2 cover.

11 If necessary, change the supply tray 2 film size.

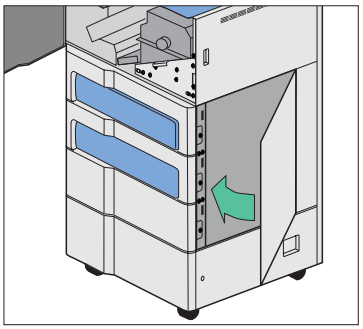
p.77 **Changing the Supply Tray Film Size**



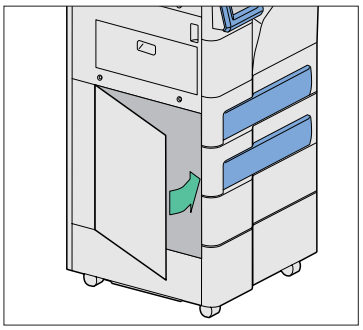
12 Remove the 2 top screws (TP screws M4X8) and the two screws (TP screws M4X8) at the edges (one at each edge) and remove the supply tray 2 front cover.



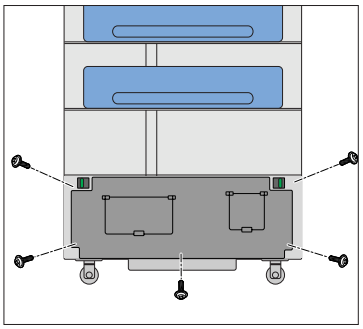
13 Slide supply 2 into place.



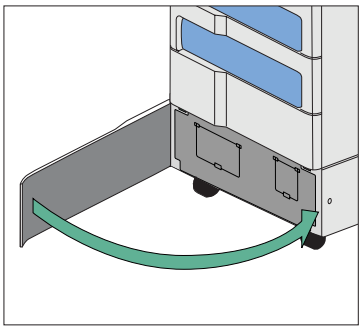
14 Close the right cover.



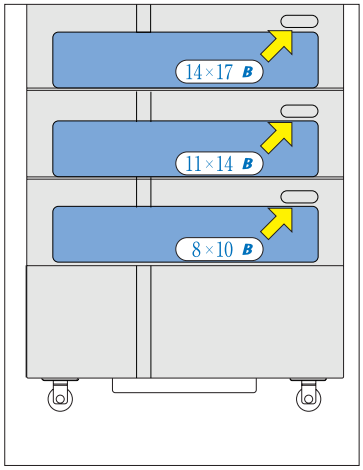
15 Close the left cover.



16 Secure the exposure unit cover into place using 5 screws (TP screws M4X8).



17 Close the lower front cover.



Example illustrating:
Supply tray 1: 14X17. blue
Supply tray 2: 11X14, blue
Supply tray 3: 8X10: blue

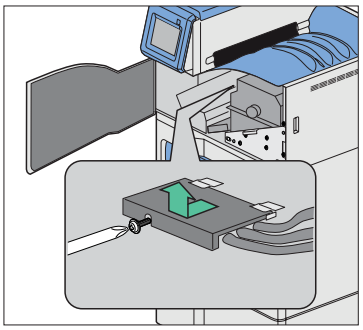
18 Affix film size labels to the level positions on each of the supply trays.

14×17 B	14×17 B	14×17 B
11×14 B	11×14 B	14×17 C
14×14 C	11×14 C	11×14 M
14×14 B	10×12 B	10×12 M
8×10 B	8×10 C	8×10 M

- **Proceed to removal of protective sheets from the heat processing drum (2.4.8).**
  Leave the front cover open for subsequent procedures.

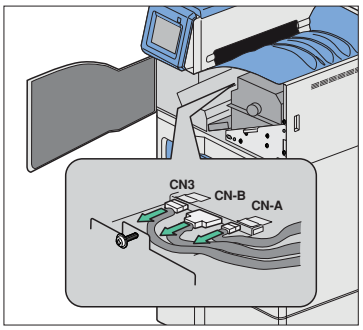
2.4.8 Removing Protective Sheet from HPRO Unit

The procedure for removal of the 14X14 film and the mylar mat used to protect the HPRO (Heat Processing Unit) drum from vibration or shock is detailed below.

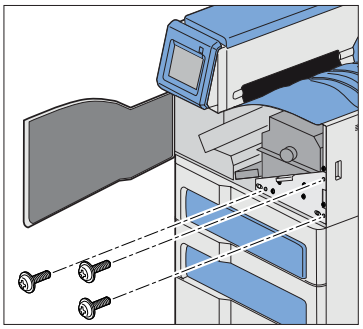


1 Loosen 1 screw (Sems Ⅱ M3X14) and remove the connector cover from the inside of the main body.

The screw need only be loosened to remove the connector cover.
Removing the screws entirely produces the risk of the screws being dropped inside the main body and makes the process of replacing the cover difficult.

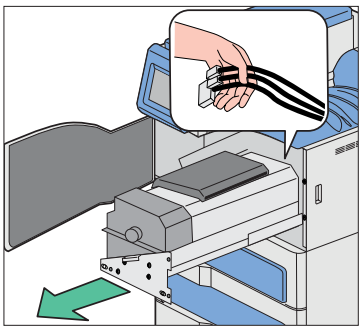


2 Disconnect HPRO drum connectors from 3 locations (CN-A, CN-B, CN3).



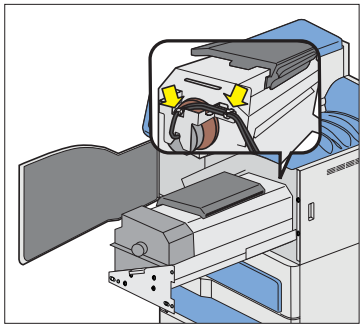
3 Remove the 3 screws (TP screws M4X8) securing the HPRO unit slide out plate to the main body.

Be careful not to make mistakes with the locations of removed screws.
Locations should be clearly marked for identification before screws are removed.

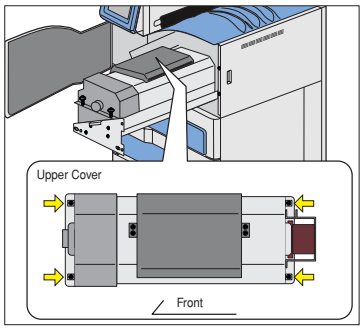


4 Lifting up the 3 HPRO drum cables disconnected in step-**2**, pull out the HPRO slide out plate from the main body to its fullest extent.

Make sure that the 3 disconnected cables do not come into contact with components in the main body such as rollers: such contact may result in damage.

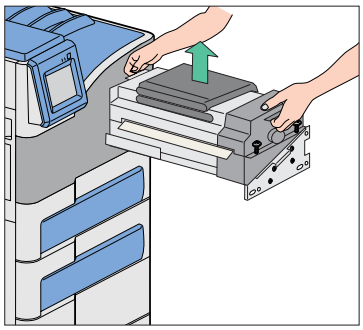


5 Remove the 2 cables on the far side of the HPRO unit from their clamps.

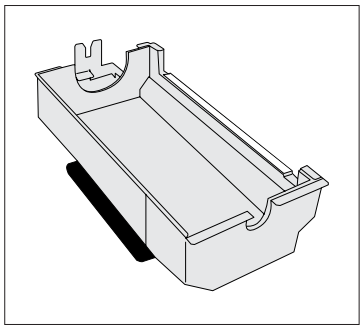


6 Loosen the 4 screws (Sems Ⅱ M4X8) at the front and rear of the upper cover (HPRO unit).

The screws securing the HPRO unit cover are designed so that they cannot be removed even when loosened.

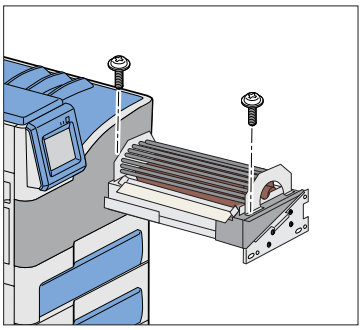


7 As shown at left, remove the upper cover holding the left and right sides.

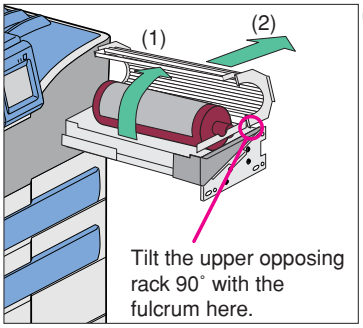


8 Set the removed upper cover top side down in a safe place.

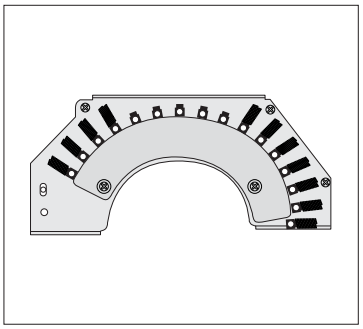
Because the heat roller removed in step-15 will be rested on the removed upper cover, make sure that the cover is placed in a safe location where there is no risk of it falling or being accidentally bumped.



9 Remove the 2 screws (TP screws M4X8) securing the upper opposing rack (one at the front, one at the back).



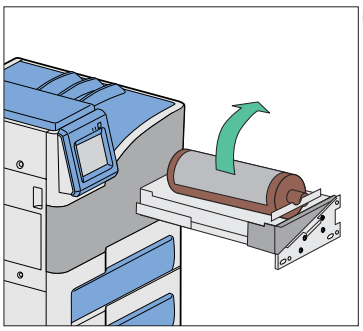
10 As shown at left, tilt the upper opposing rack 90˚ with its outer edge as fulcrum before removing.



11 Check to ensure that bearings or springs are not damaged or loose.

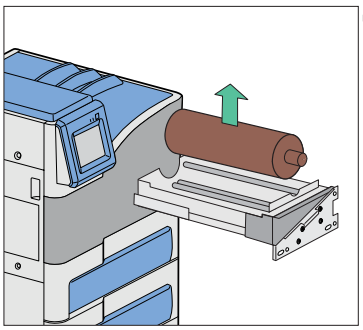
- **Any loose springs should be reset in position.**
- **In the event that springs are damaged or cannot be reset into position, the product should be processed as an incomplete consignment.**

Disengagement or change of the upper facing rack bearing or spring may lead to artifacts in image. Therefore, due care should be taken.

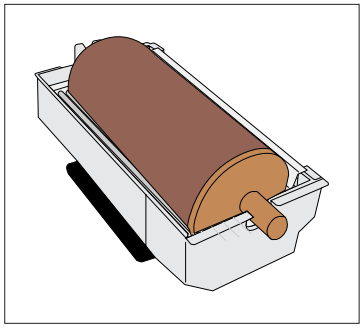


12 Remove the protective mylar sheet from the heat-processing drum.

Care must be taken not to damage the HPRO drum.

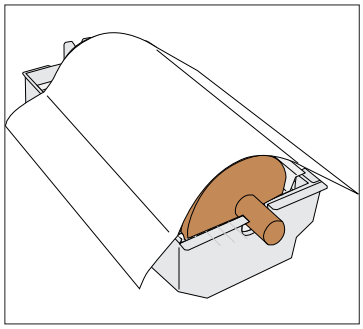


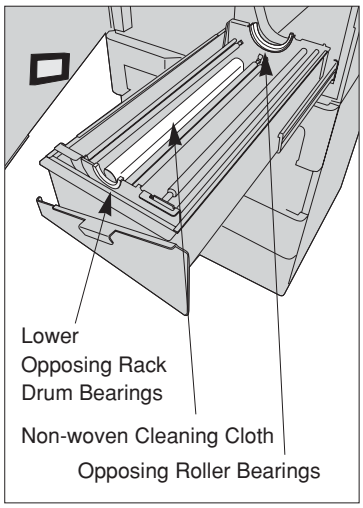
13 Remove the heat-processing drum holding the cable at the rear of the drum in the left hand.



14 Set the heat-processing drum down on the upper opposing rack removed in step-**8**.

Care must be taken not to touch or damage the surface of the heat-processing drum. Additionally, do not leave the drum unattended. Any damage to the drum will have adverse affects on output images.





17 Carry out a visual check to ensure that the lower opposing rack drum bearings or opposing roller bearings are not damaged.

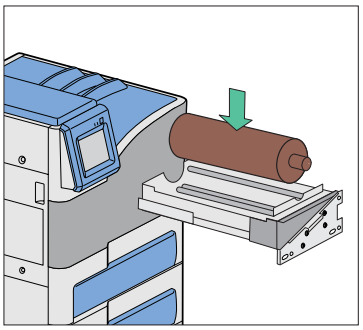
- **If damage is detected, follow procedures detailed in the "Service Manual".**

18 Carry out a visual check to ensure that there is no slack in the non-woven cleaning cloth.

- **If any slack is detected, the cleaner unit should be removed and any slack take up. (See the "Service Manual").**

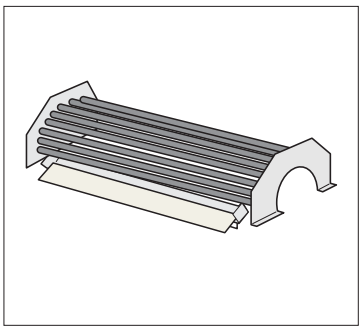
2.4.9 Installing HPRO Unit

After removing the heat-processing drum and checking for damage to any of the parts, the drum must be re-installed without delay.

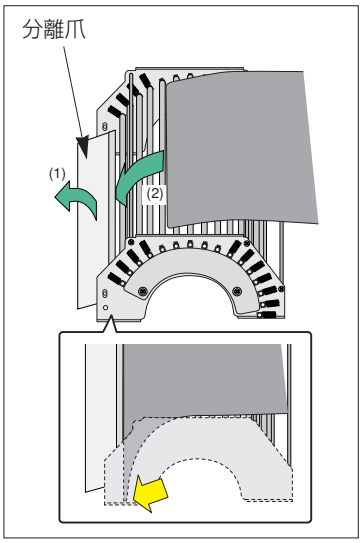


1 Holding the cable at the back of the heat-processing drum in the left hand, place the drum on the lower opposing rack.

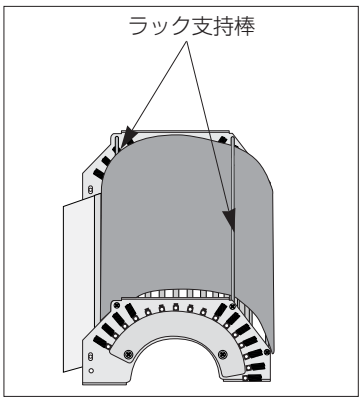
Be careful not to damage the heat-processing drum.



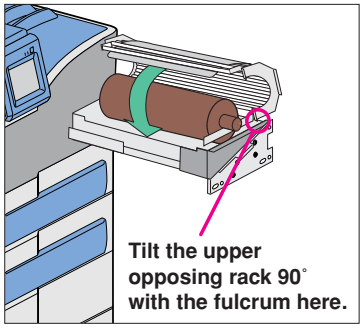
2 Insert the protective film removed in "2.4.8 Removing Protective Sheet from HPRO Unit" into the upper opposing rack as shown in the left.



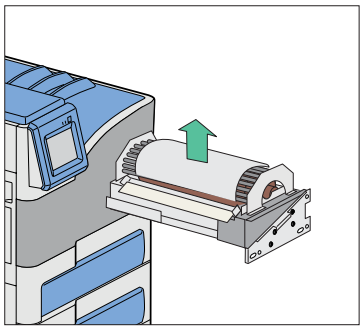
3 分離爪を手で浮かせて(1)、「2.4.4 露光部搬送ローラー保護フィルムの取り外し」で取りだしたフィルムを、上対向ラックの下の平らな場所に突き当たる位置まで差し込みます(2)。



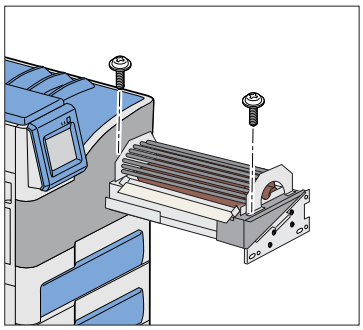
4 余ったフィルムをラック支持棒に交互に潜らせて固定します。



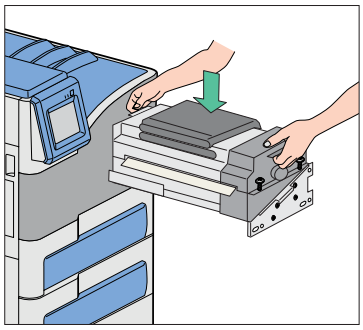
5 Set the upper opposing rack with the film inseted in the step-2 on the lever opposing rack, and tilt the upper opposing rack 90˚ with the fulcrum illustrated in the left.



6 Remove the film from upper opposing rack.

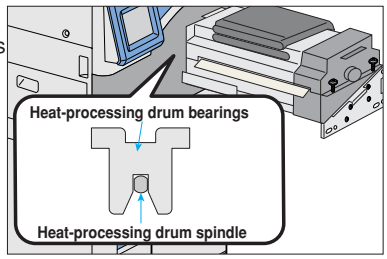


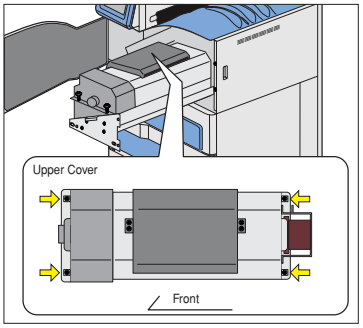
7 Secure the upper opposing rack with 2 screws (TP screws M4X8), one at the front, the other at the back.



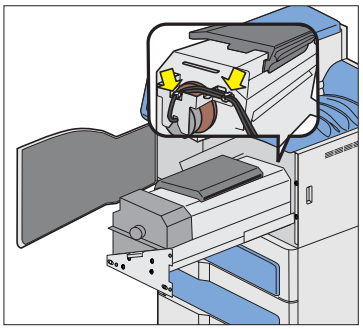
8 Replace the upper cover holding the unit from the front and back as shown at left.

Be careful of the orientation of the upper cover to the heat-processing drum bearings when replacing.
Replacement will be impossible unless the heat-processing drum spindle does not mesh with the spindle bearings.

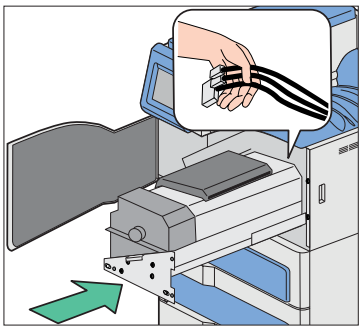




9 Tighten the 4 screws (Sems Ⅱ M4X8) at the front and back of the upper cover (heat-processing unit).

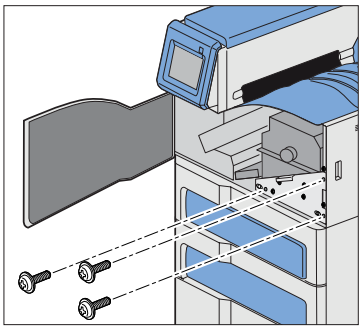


10 Attach the cable at the far side of the heat-processing unit the 2 clamps.

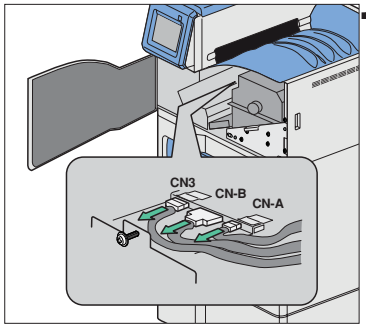


11 Holding the 3 heat-processing drum cables in the left hand, return the heat exposure unit slide plate into the main body.

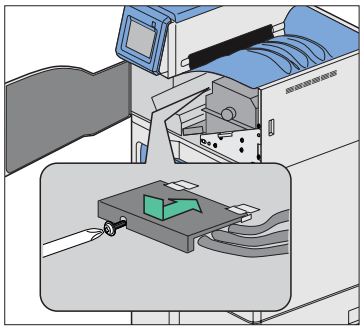
Make sure that the 3 cables do no come into contact with internal components such as rollers: such contact may cause damage.



12 Secure the heat-processing unit slide plate to the main body using 3 screws (TP screws M4X)8.

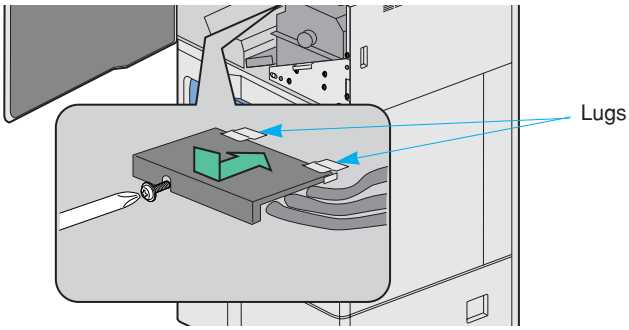


13 Reconnect the HPRO drum connectors at three locations (CN-A, CN-B, CN3).



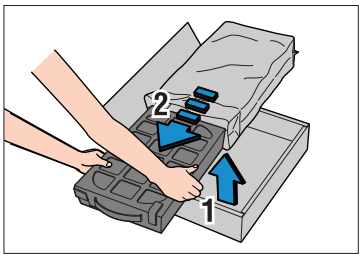
12 Tighten 1 screw (Sems Ⅱ M3X14) to secure the connector cover.

Ensure that the connector cover meshes with the lug at the back of the main body interior.
Care must also be taken to ensure that cables do not become trapped by the connector cover.



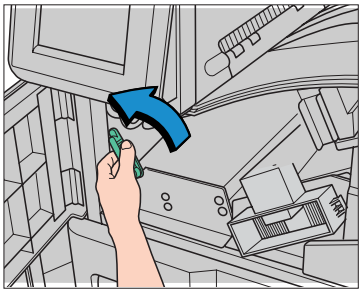
2.4.10 Installing Deodorant Filter and Deodorant Filter Case

The procedure for installing the deodorant filter and case packed with DRYPRO 793 is described below.

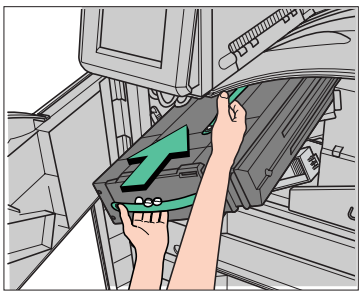


1 Remove the deodorant filter and case from the packing box.

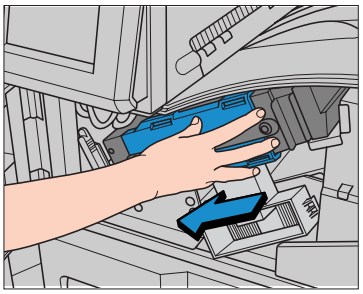
- **The deodorant filter is packed in bubble packing and a vinyl bag.**
- **The deodorant filter case is packed in bubble packing.**



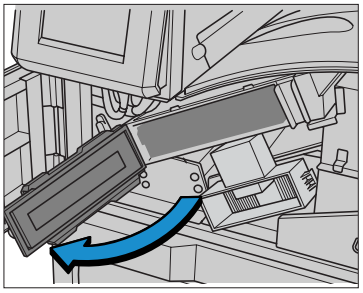
2 Turn lever-A to the left and lift.



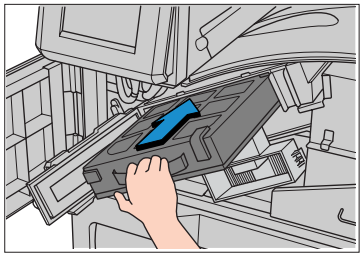
3 Install the deodorant filter case.



4 Slide the deodorant filter case lid (green) to the left.

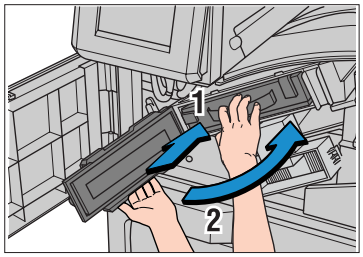


5 Open the deodorant filter case lid.

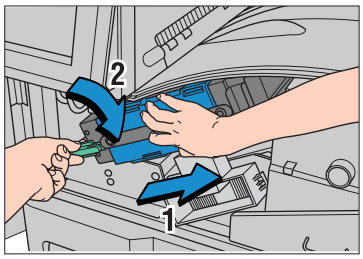


6 Set the deodorant filer in the filter case.

- **As shown at left, the filter should be inserted with the handle at the front and the holes in the cardboard at the top.**



7 Close the deodorant filter case lid.

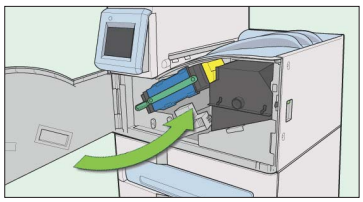


8 Slide the deodorant filter case lid to the right (1).

- **The deodorant filter case lid will lock into position.**

9 Turn lever-A to the right (2).

- **This will lock the deodorant filter case into position in DRYPRO 793.**

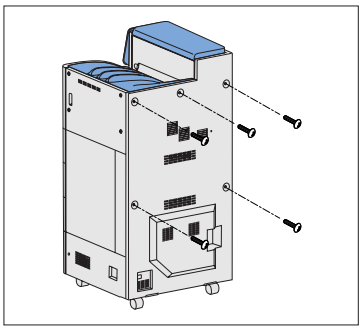


10 Close the front cover.

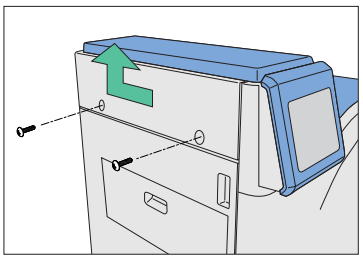
- **Close the front cover firmly until it locks into position.**
- **This concludes the procedure for installation of the deodorant filer.**
- **Proceed to installation of Lis-793 (2.4.11). If Lis-793 is not to be installed, proceed to installation of the 1GB print memory (2.4.12). If neither of the above are to be installed, proceed to installation of the rear cover (2.4.13).**

2.4.11 Installing Lis-793 (Option)

The procedure for installation of Lis-793 is described below.

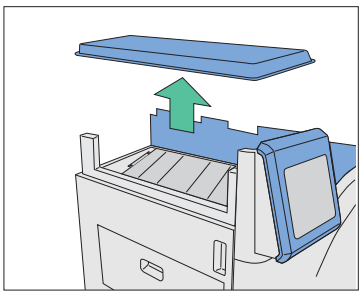


1 Remove the 5 screws (Truss screws M4X8) and remove the rear cover.



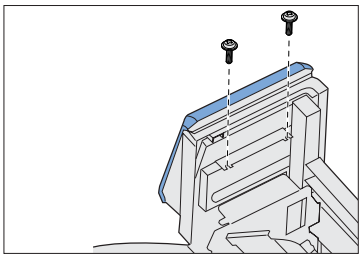
2 Remove the 2 screws (Truss screws M4X8) and remove the upper left cover.

- **To remove the upper left cover, slide it toward the rear of the main body and lift.**
- **The removed upper left cover is no longer needed.**



3 Remove the top cover.

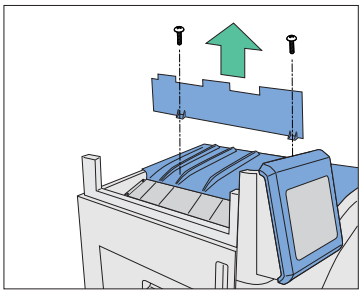
- **The top cover may be removed without removing screws after removal of the rear and upper left covers.**



4 Loosen the 2 screws (TP screws M4X12) and loosen the operation unit.

- **The operation unit screws are loosened to enable removal of the exit cover.**

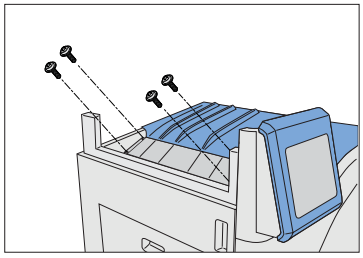
Be careful that the operation panel does not drop when the screws are loosened.



5 Remove the 2 screws (TP screws M4X8) and remove the exit cover.

- **The removed exit cover is no longer needed.**

Removed covers should be kept for use in the event that unnecessary options are removed in the future. Disposal of any unnecessary covers should be carried out in accordance with local ordinances and regulations.

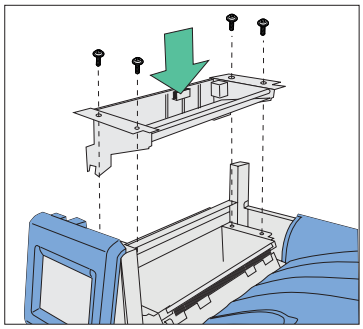


6 Remove the 4 screws (TP screws M3X6) and remove the heat-processing discharge unit guide.

- **The removed heat-processing discharge unit cover is no longer needed.**

Components no needed should be kept for use in the event that unnecessary options are removed in the future. Disposal of any unnecessary covers should be carried out in accordance with local ordinances and regulations.

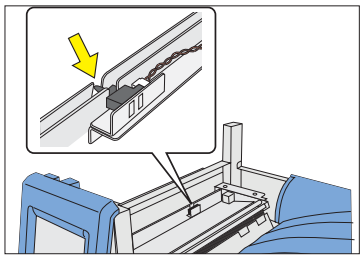
Be careful not to drop removed screws inside the main body.

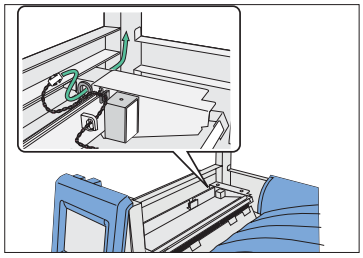


7 Secure the separation unit using 4 screws (TP screws M4X6).

- **The separation unit should be lowered carefully ensuring that the embossed markings on the heat-processing discharge unit mesh with the positioning holes.**

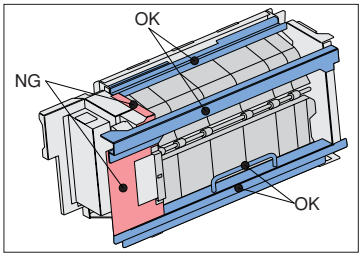
Be careful that the passing sensor and actuator on the separation unit do not become separated from the unit.



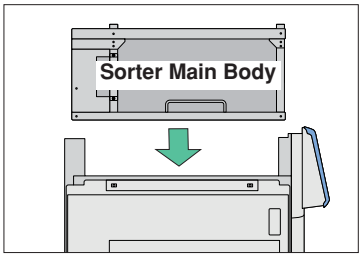


8 Pass the 2 separation unit cables (connector nos. JP165, JP166) from the hole in the HPRO discharge unit through to the rear side.

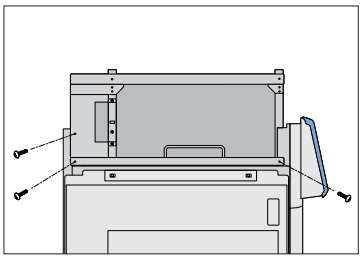
9 Secure the 2 cables to the main body at 2 locations using the clamps shown at left.



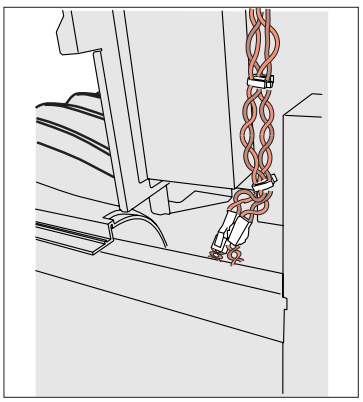
10 Holding the points marked "OK" (blue) in the illustration at left, lift up the sorter main body. Be sure not to hold the unit at points marked "NG" (red).



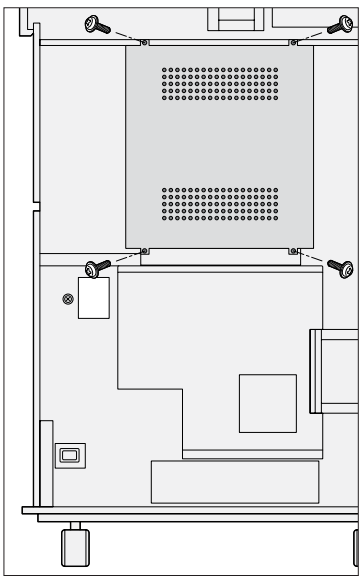
11 Set the sorter main body down on the separation unit.
(Lift the sorter main body holding the points marked "OK" (blue) in the illustration at left. Be sure not to hold the unit at points marked "NG" (red).)



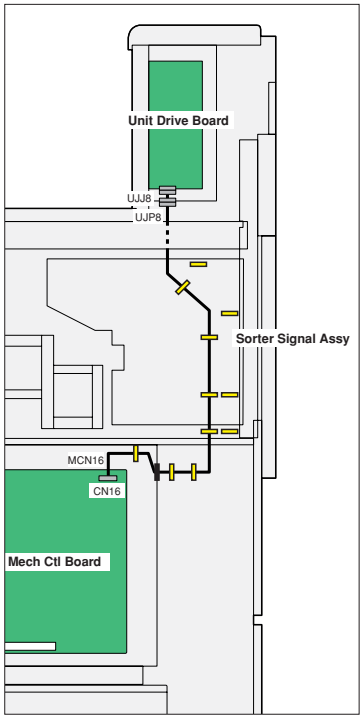
12 Secure the sorter main body to the DRYPRO 793 main body using 3 screws (TP screws M4X6).



13 Connect the separation unit connectors (JP1265, JP166) and the sorter main body cable connectors (JJ165, JJ166).



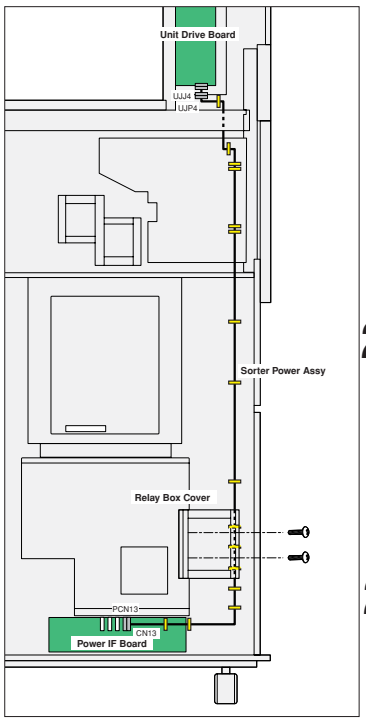
14 Remove the 4 screws (TP screws M4X8) and remove the mechanical control box cover.



15 Connect the connector (UJJ8) on the unit drive board of the sorter main body and the accessory cable (Sorter Signal Assy) connector (UJP8).

16 Secure the cable (Sorter Signal Assy) to the DRYPRO 793 main body in the clamps at the locations shown at left (rectangles shown superimposed the cable (.yellow)).

17 Connect the DRYPRO 793 mechanical control board connector (CN16) and the cable (Sorter Signal Assy) connector (MCN16).



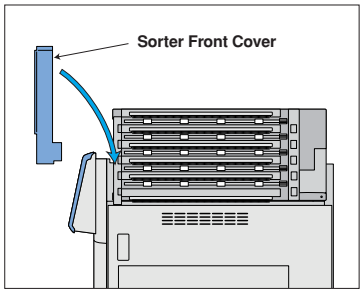
18 Connect the connector (UJJ4) on the mechanical control board of sorter main body to the cable (Sorter Power Assy) connector.

19 Secure the cable (Sorter Power Assy) to the DRYPRO 793 main body in the clamps at the locations shown at left (rectangles shown superimposed the cable (yellow)).

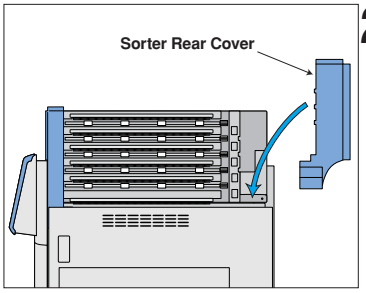
20 Loosen the 2 screws (TP screws M4X8), remove the relay box cover and pass the cable (Sorter Power Assy) through the box.

21 Replace the relay box cover using the 2 screws (TP screws M4X8).

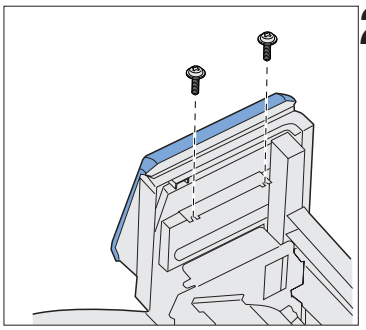
22 Connect the connector (CN13) on the power interface board in the DRYPRO 793 main body and the cable (Sorter Power Assy) connector (PCN13).



23 Set the sorter front cover down in the location shown at left.

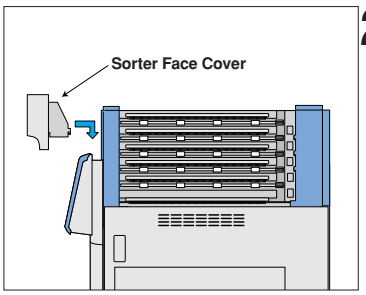


24 Set the rear cover of the sorter down in the location shown at left.

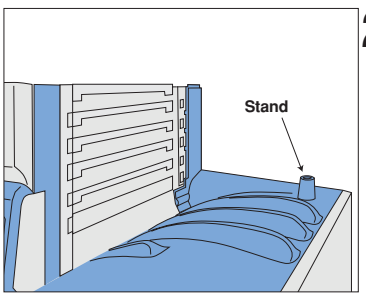


25 Tighten the operation unit screws loosened in step-**4**.

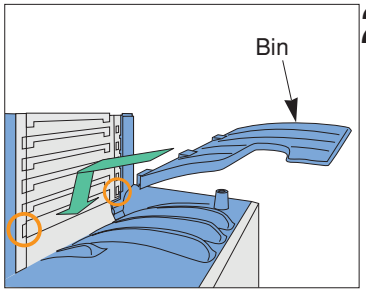
- **This will secure the sorter front cover to the main body.**



26 Install the sorter face cover using the 2 screws (TP screws M4X6).

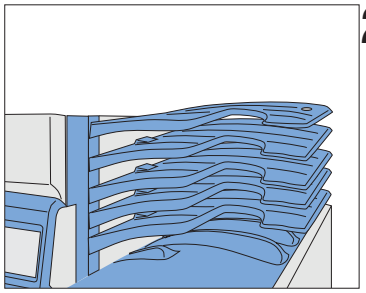


27 Set the stand in the location shown at left.

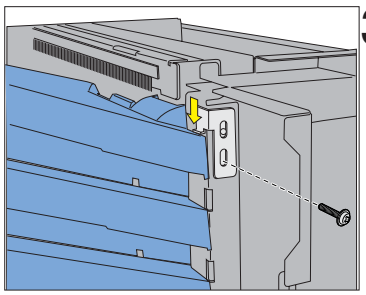


28 Fix the bins on the bottom level of the sorter in place.

Ensure that the five bins are firmly connected to the sorter main body.

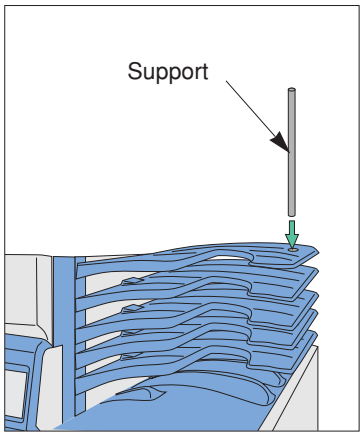


29 Fix the bins on the 2nd through 5th levels in place in the same way.



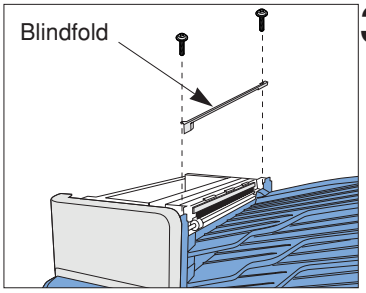
30 Install the hold-down bracket using the 2 screws (TP screws M4X6).

Difficulty in installing the hold-down bracket means that the bins in steps-28 and 29 have not been properly fixed in place.

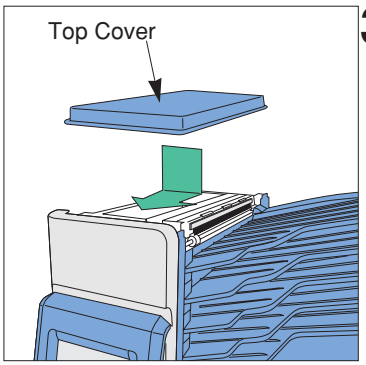


31 Pass the support through from the top bin to the stand.

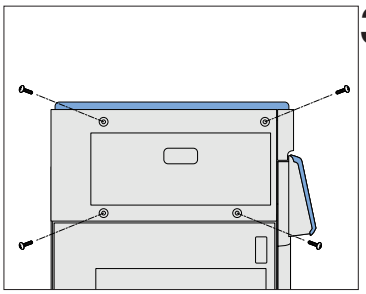
Ensure that the groove on the stand is turned toward the rear of the main body and not visible from the front.



32 Install the blindfold using the 2 screws (TP screws M4X6).



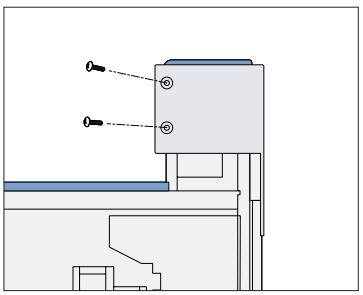
33 Place the top cover removed in step-**3** in location shown at left.



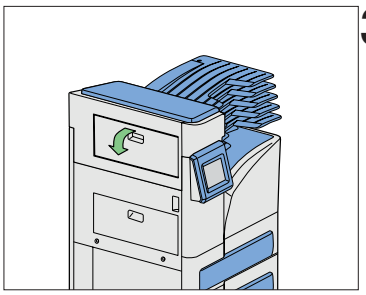
4 screws at the left side

34 Install the left cover of the sorter using the 6 screws (Truss screws M4X8).

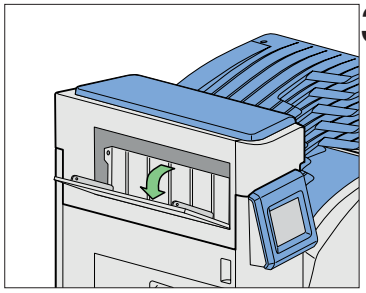
- **The left cover should cover the top cover. The top cover is secured to the main body by the left cover.**



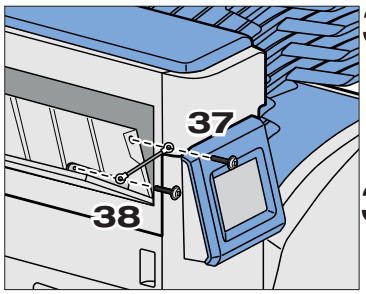
2 screws at the rear side.



35 Open the sorter cover manually.



36 Open the sorter cover outward.



37 Attach the wire to the near side of the sorter guide using one screw (Sems Ⅱ M3x6).

38 Attach the other end of wire to the sorter the cover using one screw (Sems Ⅱ M3x6).

39 Attach the wire to the sorter guide and sorter cover of the far side in the same number.

40 Close the sorter cover by hand.

- **Proceed to "2.4.12 Installing 1GB Print Memory (Option)" as necessary.**
  Otherwise, proceed to "2.4.13 Replacing the Removed Cover (2)".

If Lis-793 has been installed, the sorter usage setting in the [SORTER SETUP] (OTHER SETUP) in the service maintenance mode must be set to ON.

p.131 SORTER SETUP

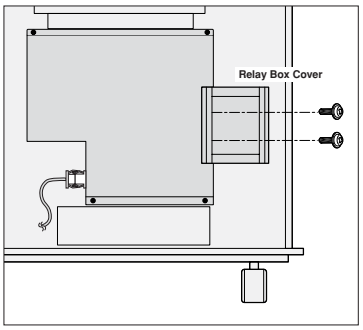
2.4.12 Installing 1GB Print Memory (Option)

In configurations including the 1GB print memory option, the memory should be installing the supply tray.

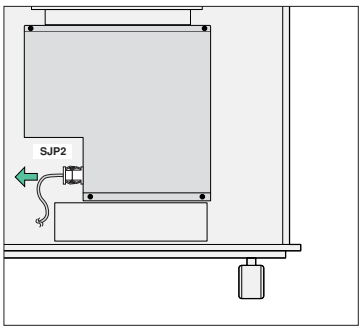
Since the following procedure involves handling circuit boards, wristbands must be worn.

Installation or removal of the memory should be carried out only after ensuring that the power cable is disconnected from the main body. Attempting installation with the power cable connected may result in electric shock causing injury and/or damage to the equipment.

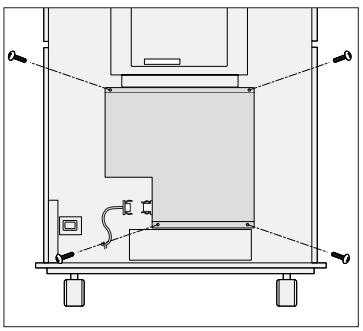
Installation or removal of the memory should be carried out only after ensuring that neither LAN nor serial cables are connected. Attempting installation with LAN and/or serial cables connected may result in damage to cables or connectors.



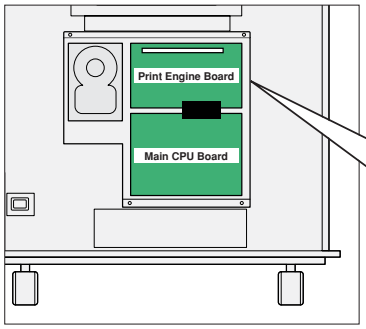
1 Remove the 2 screws (TP screws M4X8) and remove the relay box located at the bottom right of the back of the main body.



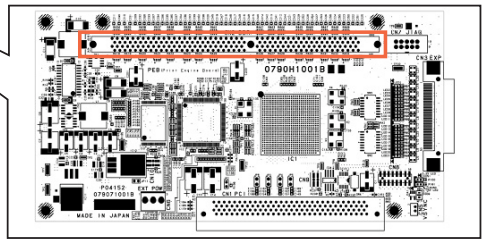
2 Disconnect the connector (SJP2) at the left edge of the control box.



3 Remove the 4 screws (TP screws M4X6) and remove the control box cover.



4 Open the lock levers at both edges of the DIMM socket on the print engine board to both sides and remove the 512MB memory module.



Opening the lock levers too forcefully may result in the memory module being dropped.
Care must be taken to ensure that the module is not dropped by, for example, lightly holding the module in place while disengaging the lever locks.

Ensure that the removed 512MB memory module is handed to the user.

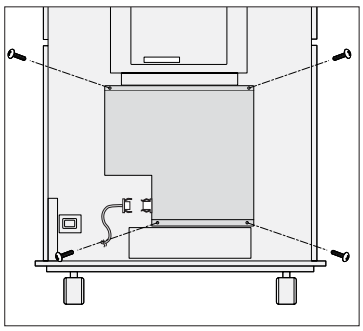
5 Install the 1GB memory module in the DIMM socket on the main print engine board.

Do not touch the edges (gold) of the memory module.
There is a notch at one point on the edge of the module: when installing, ensure that the module is set so that the notch on the module and the socket face the same direction.

メインCPUボードにもプリントエンジンボードと同様のメモリーが付いています。
メインCPUボードのメモリーは取り外さないでください。

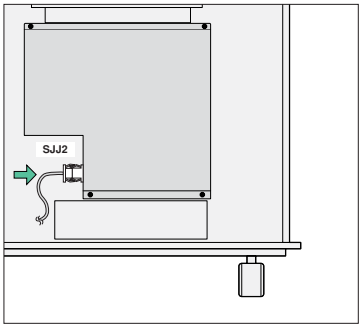
6 Write the date and details (1Gbyte) of the installed memory module in the space provided on the label affixed to the mechanical control box cover.

号機 (Ser.No)				日付 (Date)		
補正ﾊﾟﾗﾒｰﾀ (Parameter)	左 (Left)	中央 (Center)	左 (Right)	フィルムサイズ	Holizontal position	Vertical position
ST13A						
ST13B				14inch		
ST13C		7		10inch		
ST13D	7	7	7	8inch		
ST13E	7	7	7			
日付 (Date)		2004.12.12				
ソフトVer (Software Version)						
メモリー		1GByte				

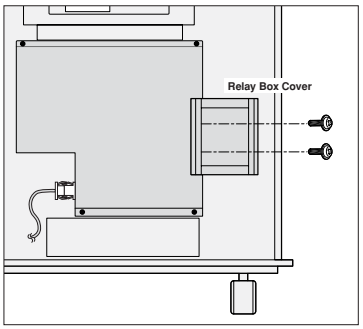


7 Secure the control box cover using the 4 screws (TP screws M4X6).

When securing the control box cover, be careful that the main cooling fan cable does become trapped between the box and the cover.
Also ensure that the control box gasket is not removed.



8 Connect the connector at the right edge of the control box (SJP2).



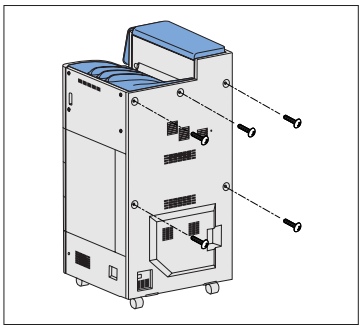
9 Fix the relay box in place using the 2 screws (TP screws M4X8).

In cases where the 1GB print memory is installed, ensure that the print memory is properly recognized in the [SYSTEM SETUP] (SERVICE SETUP1) in the service maintenance mode.

p.102 SYSTEM SETUP

2.4.13 Replacing the Removed Cover (2)

The procedure for installing the rear cover is described below.



1 Secure the rear cover using the 5 screws (Truss screws M4X8).

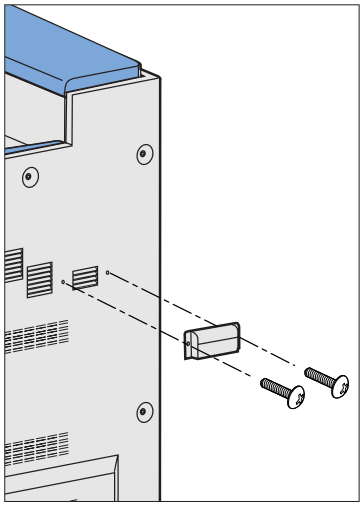
2.5 Installing Accessories

The procedure for installing accessories included in the DRYPRO 793 consignment is described below.

2.5.1 Installing Exhaust Duct

The procedure for installation of the exhaust duct is described below.
Installation of the exhaust duct produces a downward directed exhaust flow and also reduces fan-generated noise.

1 Take out the exhaust duct from the accessories packing box.



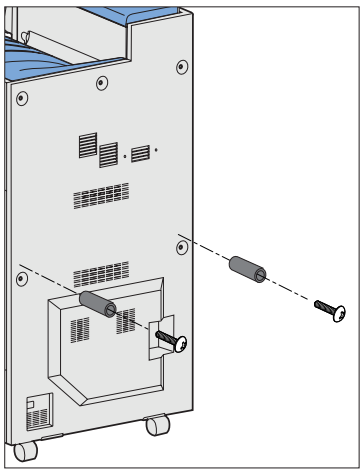
2 Remove the 2 screws (Truss screws M4X8) provided for installation of the exhaust duct on the rear side of the main body.

3 Secure the exhaust duct to the back of the main body using the 2 screws (Truss screws M4X8) removed in step-**2**.

2.5.2 Installing Film Stoppers (Spacers) (Option)

The procedure for installation of the film holder options is described below.
Installation of the film stoppers prevents blockage of the intake in the back of the main body.

1 take out the 2 film stoppers from the accessories packing box.



2 Remove the 2 screws (TP screws M4X8) provided for installation of the film stoppers on the rear side of the main body.

3 Secure the film stoppers to the back of the main body using the 2 screws (TP screws M4X8) removed in step-**2**.

-This will secure the film stoppers in place.

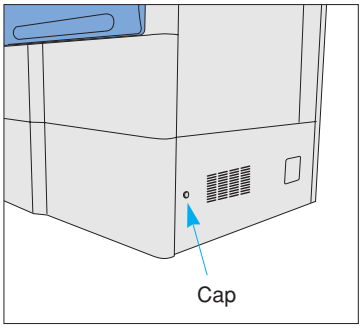
In cases where the film stoppers are not installed, failure to block the film holder screw holes will not produce film fogging.

2.5.3 Changing Supply Tray Film Size Setting (14 inch tray only)

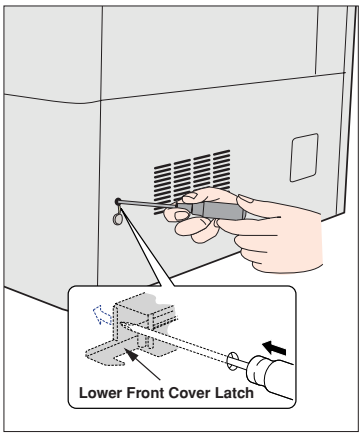
In facilities where 14X14" or 14X11" film is used, it is necessary to adjust the position of the size stopper in the supply tray.

- The stopper position is set to 14X17" at the factory.

Since supply trays for small sizes (10X12" and 8X10") are designed specifically to accommodate those sizes, no stopper adjustments are necessary.

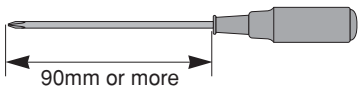


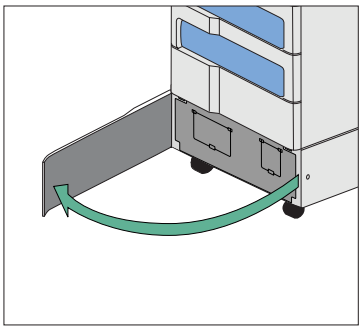
1 Remove the cap at the bottom of the right cover of the main body.



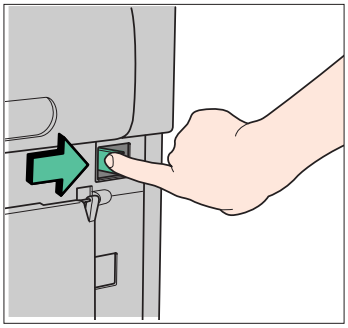
2 Disengage the lower front cover lock by inserting a driver with a shaft length of 90mm or more shown below into the hole revealed at the right side of the main body by removal of the cap and pressing down the latch.

- This will disengage the lower front cover lock.





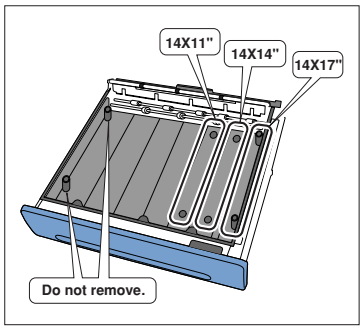
3 Open the lower front cover.



4 Press lever-C and open the right cover.

5 Insert a driver with a shaft length of 90mm or more shown below into the hole on the right side of the main body press the supply tray latch.

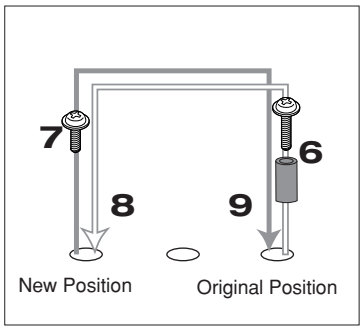
- **This will disengage the supply tray lock.**



6 Remove the 2 screws (Sems Ⅱ M4X15) from securing the side stoppers at the front and rear.

7 Remove the 2 screws (Sems Ⅱ M4X10) at the desired film size position.

8 Using the 2 screws (Sems Ⅱ M4X15) removed in step-**6**, set the side stoppers in the desired film size position.



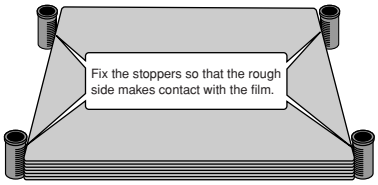
9 Replace the 2 screws (Sems Ⅱ M4X8) removed in step-**7** in the original positions.

- **This will block the screw holes at the original position preventing exposure to light.**

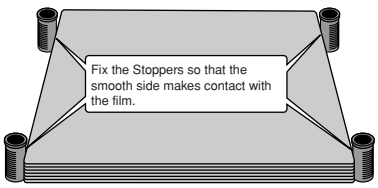
All removed screws must be replaced. Failure to replace screws may result in film fogging.

Side stoppers have a smooth and a rough side. These should be used as follows:

14X11" (B, DR-B), 14X14", 14X17": The rough side should make contact with the film.



14X11" (M) : The smooth side should make contact with the film.



After changing the supply tray film size position, size and type settings under "FILM SETUP" (TRAY SETUP) in the service maintenance mode must be changed.

p.102 FILM SETUP

2.5.4 Installing UPS (Option)

The procedure for installing the UPS in DRYPRO 793 is described below.

1. Operation

The operation of both recommended and non-recommended UPS is described below.

When the recommended UPS is used:

- Upon occurrence of a power outage, DRYPRO 793 will power down in the same way as when the power switch is pressed.
- When a power outage occurs during printing, only the film being printed will be ejected after which DRYPRO 793 will power down in the same way as when the power switch is pressed. If a number of jobs remain in the print queue, printing will resume when power is next switched on.

Accidental disconnection of the serial cable during DRYPRO 793 operation will result in power being turned off in the same way as when the power switch is pressed.

When non-recommended UPS is used.

- The power off operation effected by the recommended UPS is not guaranteed. Power will switch off abruptly after the time during which the UPS is capable of maintaining power elapses.

A sudden power switch off when the DRYPRO 793 power is on will result in failure to properly store film data, etc.

2. Purchase (Recommended Product)

Products meeting local power supply specifications should be purchased.

Proven Products

UPS name	: Smart UPS 1500VA (Model name when purchased in Japan : SUA1500J)
Serial cable name	: InterfacekitC (serial cable for Linux) (Model name when purchased in Japan : AP9824LJ)

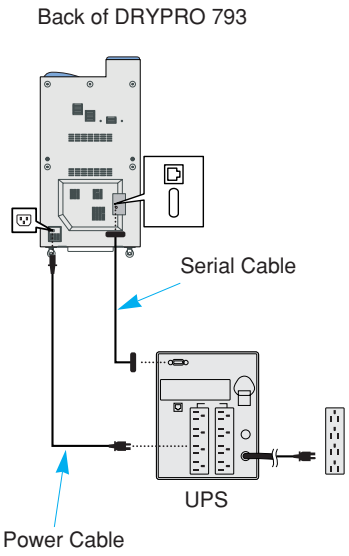
While the above proven products may be purchased in various countries, model names differ depending on power supply specifications.
The APC homepage available in the country of installation should be consulted for model names corresponding to the above products.

The serial cable used should be no more than 3m in length.

3. Installation

For details of installation, refer to the product manual.

4. Connection to DRYPRO 793 (Recommended Product)



1 Switch off the DRYPRO 793 power supply.

2 Connect the serial cable to the serial connector at the back of DRYPRO 793.

3 Connect the other end of the serial cable connected in step-**2** to the UPS.

4 Connect the DRYPRO power cable to the power outlet (3P) at the back of the UPS.

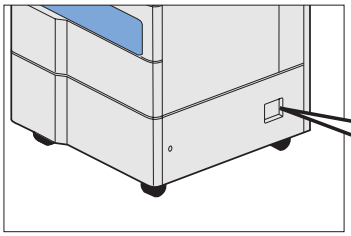
5 Connect the UPS power cable to the facility power outlet (3P).

2.6 Starting Up

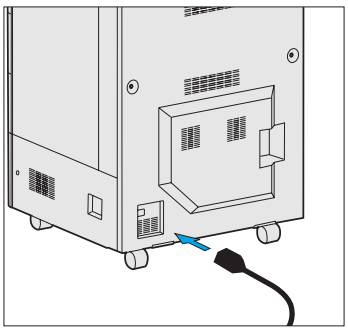
The procedure for starting up DRYPRO 793 after completion of all installation and part removals is described below.

2.6.1 Switching On Power

The procedure for switching on DRYPRO 793 power is described below.



1 Check to ensure that the breaker at the bottom of the right cover of DRYPRO 793 is off.

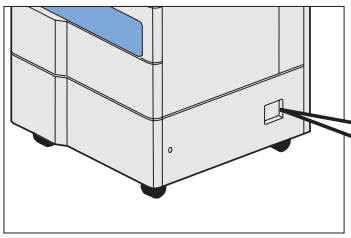


2 Connect the power cable to the power socket at the bottom left of the rear side of DRYPRO 793.

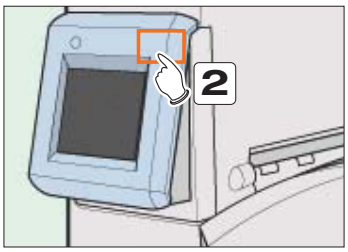
3 Connect the power cable to the facility power outlet (3P).

In cases where a 3P outlet is not available, a 3P-2P adapter must be used. When using a 3P-2P adapter, ensure that the adapter earth is connected to the facility earth terminal.

Do not connect the Ethernet cable yet. The Ethernet cable should be connected only after completion of all DRYPRO 793 settings.



4 Switch on the breaker at the bottom of the right cover of DRYPRO 793.



5 Press and hold down the operation button on the operation panel for about 1 second.

- **This will result of initiation of initial operation followed by a tone (beep) upon completion and display of "Film Set" under loaded film information.**

- **Proceed to DRYPRO 793 settings.**

Do not load film yet.

Chap. 3

Setup

This chapter describes procedures for making DRYPRO 793 settings.

3.1 Outline of DRYPRO 793 Settings

An outline of the maintenance mode is set out below.

3.1.1 Settings to be Made during Installation

The following network and printing settings are made using the maintenance mode.

[TRAY SETUP]

- FILM SETUP : Settings include size and type of film loaded in DRYPRO 793 and tray usage status.

p.88 FILM SETUP

[SERVICE 1]

- SCP SETUP : Setting of DICOM information for DRYPRO 793 itself.
- SCU SETUP : Registration of diagnostic devices connected to DRYPRO 793 and setting of diagnostic device DICOM information.
- SYSTEM SETUP : Settings related to internal operation of DRYPRO 793.
- NEW USER : Registration of users utilizing the DRYPRO 793 main body and Web maintenance tools. (Only when the user log in mode is ON.)

p.93 SCP SETUP
p.96 SCU SETUP
p.102 SYSTEM SETUP
p.105 NEW USER

[PRINT SETUP]

- PRINT CONDITION : Setting of print conditions for each diagnostic device connected to DRYPRO 793 (image parameters, etc.).
- LUT SETUP : Editing of DRYPRO 793 internal user LUTs. (Refer to "Outline of LUT Settings.")

p.110 PRINT CONDITION
p.118 LUT SETUP

[TIMER SETUP]

- TIME SET : Check and setting of the DRYPRO 793 internal clock and setting of the time and date display format.
- MAINTENANCE SCHEDULE : Initialization of the regular DRYPRO793 inspection schedule.

p.124 TIME SET
p.128 MAINTENANCE SCHEDULE

[OTHER SETUP]

- SORTER SETUP : DRYPRO 793 sorter usage status, bin destination settings, etc.

p.131 SORTER SETUP

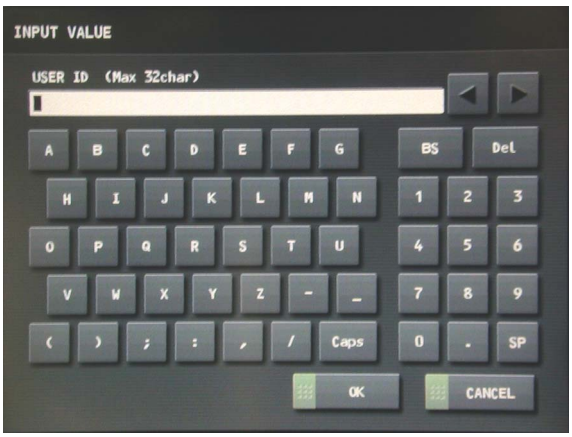
The user registration setting is made only when the user log in mode is ON.
User log in ON/OFF settings are made from [SYSTEM SETUP] under [SERVICE 1].

DRYPRO 793 settings may also be made from the Web maintenance tool. For details, refer to "Chapter 6: Web Maintenance Mode."

p.165 Web Maintenance Mode

3.1.2 Set Value Input Screen

The procedure for manipulation of the set value input screen in the maintenance mode is described below.



1) Set Value Display Field

Displays current set values and setting ranges.

2) [<][>] Buttons

Executes 1-character shift to the left or right.

3) [BS] Button

Deletes the character to the left of the cursor.

4) [Delete] Button

Deletes one character under the cursor.

5) [OK] Button

Saves the input set value and returns to the original screen.

6) [Cancel] Button

Returns to the original screen without saving the input set value.

7) [0] ~ [9] Button

Used for input of numerical values from 0 through 9.

8) Character Input Buttons

Used for input of letters of the alphabet and symbols.

9) [CAPS] Button

Used to switch between upper and lower case alphabetical input.

3.2 Switching to the Service Maintenance Mode

The procedure for switching to the service maintenance mode is described below.

1 Touch the [MENU] button.

- **The menu mode screen will be displayed.**

2 Touch the [Maintenance] button.

- **Since the default log-in password setting is ON, the user selection screen is displayed.**

3 Move through the following pages using the scroll button until page 3/3 is displayed.

- **Touch the [<] button once, or the [>] button twice.**
- **The user selection screen (3/3) will be displayed.**

出荷時、ユーザーは次のように登録されています。

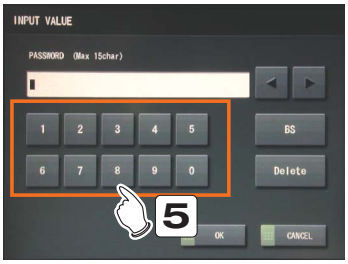
User Name	User Level	Password
USER 1	2	01
USER 2	3	02

4 Touch the [SERVICE] button.

- **The password input screen will be displayed.**

"USER LV2" と "USER LV3"のパスワードは次の通りです。
パスワードの変更はできません。

User Level	Password
2	2222
3	3333



5 Input the service password (5678).

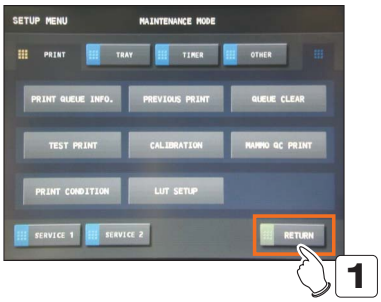
- **The input password will be displayed as a series of asterisks (*).**

6 Touch the [OK] button.

- **If the input password is correct, the user maintenance mode screen will be displayed.**
- **If the input password in incorrect, a message indicating input of an incorrect password will be displayed. Input the correct password.**
- **Even if the input password is correct, if a WEB maintenance user is logged in, a message indicating that, since a remote user is currently logged in, settings cannot be changed.**

3.3 Switching to the Normal Screen from the Service Maintenance Mode

The procedure to switching to the normal screen from the service maintenance mode is described below.



1 Touch the [RETURN] button.

- **The normal screen will be displayed.**

In DRYPRO 793, the service maintenance mode status does not remain active after the maintenance mode has been exited.
The password must be input each time the service maintenance mode is to be used.

3.4 Film Setup

The procedure for making film size and type settings for film output by DRYPRO 793 is described below.
Although the film sizes and types for DRYPRO722/751/752 are read automatically from the film package, these settings must each be input in the DRYPRO 793 maintenance mode.
The following settings must be made.

p.170 FILM SETUP
(Web Mainte. Mode)

Item	Default	Descriptions
FILM SIZE	Tray-1 : 14x17 Tray-2 : 14x17 Tray-3 : 8x10	Sets film sizes for film loaded in each of the trays. "14x17" : 14inch x17inch film "14x14" : 14inch x14inch film "11x14" : 11inch x14inch film "10x12" : 10inch x12inch film "8x10" : 8inch x10inch film
FILM TYPE	Tray-1 : B Tray-2 : B Tray-3 : M	Sets the film type for film loaded in each tray. "B" : Blue base film "C" : Clear base film "M" : Mammography film
COUNT	Tray-1 : 0 Tray-2 : 0 Tray-3 : 0	Sets the film count for film loaded in each tray. Settings may be made within a range of 0 – 126. Since the product is shipped with no film loaded, the setting in the shipping configuration is "0". In the event that film has been loaded prior to this point, the loaded film count will be displayed.
TRAY USE	Tray-1 : ON Tray-2 : OFF Tray-3 : OFF	Sets the usage status of each tray. "ON" : Tray used. "OFF" : Tray not used.
SHEETS OF PACKAGE	Tray-1 : 126 Tray-2 : 126 Tray-3 : 126	Sets the film package count for each tray. The value printed on the film box +1 should be set. (This is to allow for the calibration sheet used when film is loaded.) Settings may be made within a range of 0 – 126.
TRAY SERIES USE	ON	Sets operation for use of the same film size/type in multiple trays. "ON" : Multiple trays operate as one tray. 1つのトレイのフィルムが無くなっても、別のトレイに同一フィルムサイズ／タイプのフィルムが残存している場合、EMPTY状態にはなりません。 "OFF" : Multiple trays operate independently. 別トレイに同一フィルムサイズ／タイプのフィルムが残存していても、EMPTY状態になります。
TRAY SERIES SET	OFF	Sets the film set operation mode valid when all trays are empty. "ON" : Film set operation is continued. "OFF" : Film set operation is not continued. Display is returned to the normal screen.
SHEETS IN THE TRAY	1	Sets the number of the trays mounted. "1" : 1-tray specification "2" : 2-tray specification "3" : 3-tray specification

The following conditions apply to setting changes.

Film size, type, count and package count settings are not possible for trays whose [Tray Use] is set to [Not in Use].
Film size, type, count and package count settings are not possible.

When the [Tray Use] is set to [Not in Use].
Tray 2 and 3 settings are not displayed (setting changes not possible.

When the [Mounted Tray Count] is set to "1".
Tray 3 setting are not displayed (setting changes not possible).

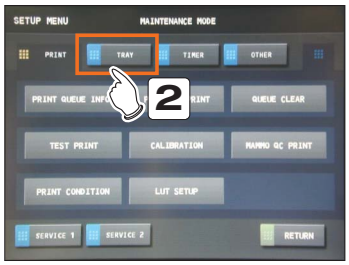
When unprocessed jobs remain in DRYPRO 793.
All setting changes are not possible.

When an optional additional supply tray is mounted, the [Mounted Tray Count] and [Tray Use] settings should be changed.
Changes to settings should not be made until after the additional tray has been mounted in DRYPRO 793.
Making setting changes before the additional tray is mounted will result in error.

To prevent mistakes in setting changes that may occur when making settings from locations where the actual device cannot be visually checked, the system is designed so that the [Mounted Tray Count] cannot be changed from the Web Maintenance Mode.
Changes must be made from service maintenance mode.

1 Switch to the service maintenance mode.

p.86 **Switching to the Service Maintenance Mode**

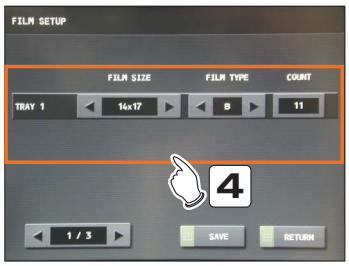


2 Touch the [TRAY] button.

- **The film setup buttons will be displayed.**

3 Touch the [FILM SETUP] button.

- **The film setup screen (1/3) will be displayed.**

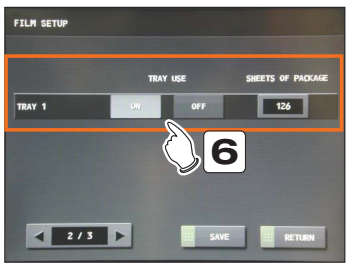


4 Set the film size, type and count for trays 1-3.

- **Use the [<] and [>] buttons to change displayed values.**
- **Touching the film count button will produce display of the set value input screen.**

5 Touch the [>] button at the bottom left of the screen once.

- **The film setup screen (2/3) will be displayed.**



6 Make tray use and package count settings for trays 1-3.

- **Touch either the tray use "ON" or "OFF"" button to switch between settings.**
- **Touching the package button will produce display of the set value input screen.**

7 Touch the [>] button at the bottom left of the screen once.

- **The film setup screen (3/3) will be displayed.**

8 Make tray series use, continuous film setup and mounted tray count settings.

- **Use the "ON" or "OFF" buttons to active or deactivate tray series use and continuous film setup.**
- **Touch [<], [>] to change the value for "SHEETS IN THE TRAY."**

In cases where the optional supply tray 3 is mounted, the mounted tray count setting must be set to "3."

Changes to the [Mounted Tray Count] setting will also result in corresponding changes to the tray count illustration on the normal screen.

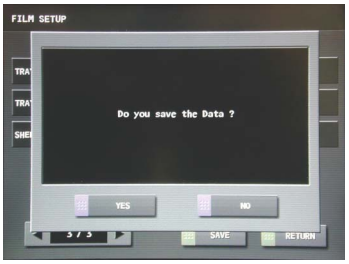
9 Touch the [SAVE] button.

- **Settings will be saved and display returned to the service maintenance screen.**

Touching the [Return] button during the process of making setting changes will produce display of a message requesting confirmation of whether or not to save settings.

[Yes] : Settings will be saved and display returned to the service maintenance screen.

[No] : The service maintenance screen will be displayed without saving settings.



The message shown at the right will be displayed if settings are incorrect.

"Data setting is incorrect."
The type specified is inappropriate for the set film size.

"Failed to store because the value was different from the machine setup. It will be returned to previous value."
The film size specified is inappropriate for the mounted supply tray. For details, refer to the below.

Combinations of film size, type and mounted supply unit, which can be accepted and saved are as follows;

1. Film sizes that may be set for mammography film type.

- 11x14, 10x12, 8x10 : Settings accepted
- 14x17, 14x14 : Settings not accepted

2. Relationship between supply tray types and film sizes.

- 14" supply tray : Settings of 14X17, 14X14, 11X14 accepted.
- 10" supply tray : Setting of 10X12 only accepted.
- 8" supply tray : Setting of 8X10 only accepted.

The following two SCU settings must be changed when film setup changes have been made.

- Size of film used
- Tray empty notification

p.96 SCU Setup

3.5 SCP Setup

The procedure for making SCP settings (DICOM information for DRYPRO 793 itself) is described below.

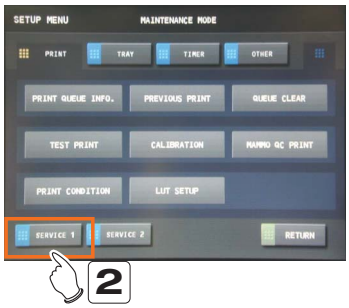
p.172 SCP Setup (Web Mainte. Mode)

Item	Default	Descriptions
IP ADDRESS	192.168.20.161	Sets the DRYPRO 793 IP address.
SUBNET MASK	255.255.255.0	Sets the network sub-net mask.
GATEWAY	0.0.0.0	Sets the network gateway.
HOST NAME	(Blank)	Sets the DRYPRO 793 host name. A maximum of 16 alphanumerical characters may be specified.
PORT NUMBER	6000 104 0 0	Sets the DRYPRO 793 DICOM receipt port number. It is not necessary to duplicate settings for the same port number. Do not set all values to "0." Settings may be made within a range of 100 – 65000.
AE TITLE	KC_DPRO3_P001	Sets the DRYPRO 793 AE tile. Alphabetical settings are case sensitive.
EXPANSION PORT CHANNEL	NO SELECT	Selects the channel to be used for port expansion in cases where external devices are connected in the expanded port specification. <NO SELECT> : Connection according to the basic specification (Expanded port not used) <CH01> : CH01 is set as the expanded port. ~ <CH16> : CH16 is set as the expanded port.

p.11 Expanded Port Specification

1 Switch to the service maintenance mode.

p.86 **Switching to the Service Maintenance Mode**

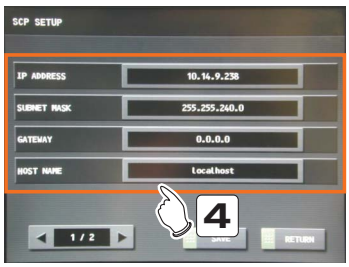


2 Touch the [SERVICE 1] button.

- **The installation setup buttons will be displayed.**

3 Touch the [SCP SETUP] button.

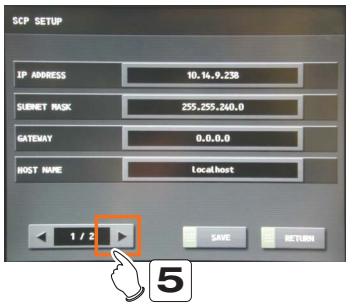
- **The SCP setup screen (1/2) will be displayed.**



4 Set the IP address, subnet mask, gateway and host name.

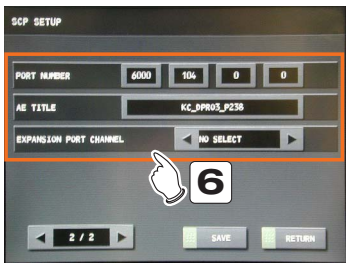
- **Touching each of the buttons will produce display of a set value input screen.**

p.85 Set Value Input Screen



5 Touch the [>] button at the bottom left of the screen once.

- **The SCP setup screen (2/2) will be displayed.**



6 Set the port number, AE title and expanded port channel function.

- **Touching the port number and AE title buttons will produce display of set value input screens.**
- **Use the [<] and [>] buttons to switch between expanded port channel set values.**

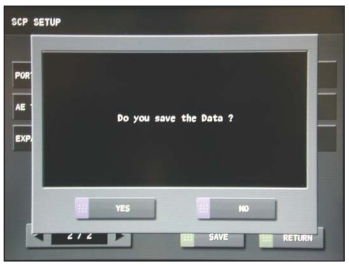
7 Touch the [SAVE] button.

- **Settings will be saved and display returned to the service maintenance screen.**

Touching the [Return] button during the process of making setting changes will produce display of a message requesting confirmation of whether or not to save settings.

[Yes] : Settings will be saved and display returned to the service maintenance screen.

[No] : The service maintenance screen will be displayed without saving settings.



3.6 SCU Setup

The procedure for making SCU settings (DICOM information for diagnostic devices connected to DRYPRO 793) is described below.
The following SCU settings should be made.

p.173 SCU Setup
(Web Mainte. Mode)

The default settings for each of the DICOM SCU items are based on connection of CS-1/CS-2 (CH1), Printlink2 (CH2) , CS-3(CH3)(one of each connected).

未使用の入力装置の「入力装置　使用」は必ず「OFF」に設定してください。

Item	Default	Descriptions
CHANNEL USE	CH01 : ON CH02 : ON CH03 : ON CH04~16 : OFF	Setting to determine whether or not to use channels of the selected diagnostic device."ON" or "OFF" may be selected.
SCU NAME	CH01 : Regius170 CH02 : Printlink2 CH03 : Regius190 CH04~16 : (Blank)	Sets the name of the selected diagnostic device. A maximum of 12 alphanumerical characters may be specified. The device name specified here is used for display.
IP ADDRESS	CH01 : 192.168.20.90 CH02 : 192.168.20.200 CH03 : 192.168.20.90 CH04~16 : 0.0.0.0	Sets the IP address of the diagnostic device. "0.0.0.0" should be specified in cases where N-EVENT REPORT is not used.
HOST NAME	CH01~16 :(Blank)	Sets the host name of the diagnostic device. This should be left blank in cases where N-EVENT REPORT is not used. A maximum of 16 alphanumerical characters may be specified.
PORT NUMBER	CH01 : 6000 CH02 : 6001 CH03 : 6000 CH04~16 : 0	Specifies the diagnostic device port number. "0" should be specified in cases where N-EVENT REPORT is not used.Settings may be made within a range of 0 – 65535.
AE TITLE	CH1 : KC_CS1L_U001 CH2 : KC_PLNK3_U001 CH3 : KC_CS3L_U001 CH04~16 : (Blank)	Specifies the diagnostic device AE title. A maximum of 16 alphanumerical characters may be specified. Alphabetical settings are case sensitive. This should be left blank in cases of external devices used in the expanded port specification.
ERROR LEVEL	CH1~16 : STANDARD	Sets the method of returning DICOM errors to diagnostic devices. Do not make changes to this setting unless instructed to do so. <STANDARD> : DICOM N-GET responses: Tray empty → WARNING Maintenance in process → FAILURE Error → FAILURE <FAILURE> : DICOM N-GET responses Tray empty → FAILURE Maintenance in process → FAILURE Error → FAILURE <N-ACTION> : No error returned as DICOM N-GET response. Error returned upon N-ACTION response.

The relationship between communication between DRYPRO 793 and external devices according to DICOM error level settings is shown below.

In warming up, ready to print and tray empty statuses

(when the film empty notice is set to "OFF". Including the relation in film empty status.)

Setting	DICOM Communication Message	Print Job Registration	DRYPRO 793 Status Displayed on External Diagnostic Device
STANDARD	NORMAL	α	READY
FAILURE	NORMAL	α	READY
N-ACTION	NORMAL	α	READY

In user/service maintenance mode active statuses

Setting	DICOM Communication Message	Print Job Registration	DRYPRO 793 Status Displayed on External Diagnostic Device
STANDARD	FAILURE	β	CHECK PRINTER
FAILURE	FAILURE	β	CHECK PRINTER
N-ACTION	NORMAL	α	READY

In tray empty status (With tray empty notification set to "ON.")

Setting	DICOM Communication Message	Print Job Registration	DRYPRO 793 Status Displayed on External Diagnostic Device
STANDARD	WARNING	β	FILM EMPTY
FAILURE	FAILURE	β	FILM EMPTY
N-ACTION	NORMAL	χ	READY

Error status

Setting	DICOM Communication Message	Print Job Registration	DRYPRO 793 Status Displayed on External Diagnostic Device
STANDARD	FAILURE	β	ERROR
FAILURE	FAILURE	β	ERROR
N-ACTION	NORMAL	χ	READY

α : Jobs may be registered.

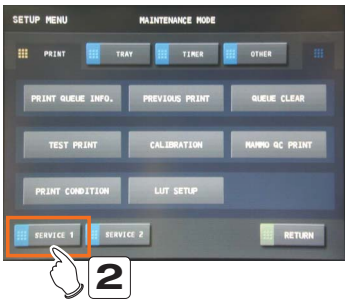
β : In cases of diagnostic devices that ignore the DRYPRO 793 status, job registration is possible due to continuing DICOM communication.
In cases of diagnostic devices that acquires the DRYPRO 793 status, job registration is not possible due to discontinuation of DICOM communication.

χ : Job registration not possible due to discontinuation of communication by DRYPRO 793 according to DICOM communication (N-ACTION response).

Item	Default	Descriptions
SIZE TYPE CHECK	CH01~16 : ON	This setting determines whether or not film information (film size, type) sent by diagnostic devices is checked. "ON" : Information is checked. Error is returned to the diagnostic device if film size or type in incorrect. "OFF" : Information is not checked. In the event that incorrect size or type information is sent, film is printed in accordance with "film size and type in use" (SCU SETUP) without returning error information to the diagnostic device.
FORCED SPECIFIED FILM USE	CH01~16 : OFF	This setting determines whether or not film information (film size, type) sent by the diagnostic device is ignored and "film size and type in use"(SCU) set on DRYPRO 793 is used. "ON" : Film information sent by the diagnostic device is ignored and "film size and type in use" set on DRYPRO 793 is used for printing. "OFF" : Supply tray selection and printing are carried out in accordance with film information sent by the diagnostic device.
DEFAULT TRAY	CH01~16 : 14x17 B	Sets film to be used in the event that the size type check (SCU setting) is "OFF," or the forced specified film use setting is "ON." Only film selected under [FILM SETUP] can be selected.
EMPTY NOTICE	CH01~16 : Film Info. 1 : ON Film Info. 2 : ON Film Info. 3 : ON	This setting determines whether or not tray empty notification for each type and size is sent to the diagnostic device. (Films of same size but of different type are handed as different films.) In the case of diagnostic devices that are set to use only a specific film size and type, it may not be necessary to send empty tray notification for other film sizes and types. In such cases, setting the empty tray notification of the channel to "OFF" will inhibit unnecessary empty tray notification to that diagnostic device. The film size and type set under [FILM SETUP] are displayed in this column.

1 Switch to the service maintenance mode.

p.86 **Switching to the Service Maintenance Mode**



2 Touch the [SERVICE 1] button.

- **The installation setup buttons will be displayed.**

3 Touch the [SCU SETUP] button.

- **An input device selection screen will be displayed.**

- **The following three input devices are set as default.**
  CH01 : Regius 170
  CH02 : Printlink
  CH03 : Regius 190
  To change information for these channels, touch the corresponding device button.
  After inputting new input device information, touch the button corresponding to the channel to which the information is to be added.

4 Touch the channel button to be set.

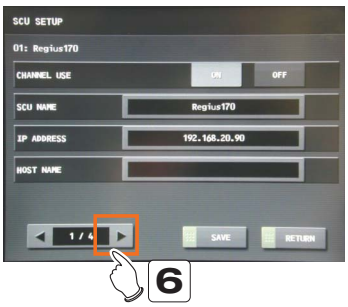
- **The SCU setting screen (1/4) will be displayed.**

5 Set input device usage, input device name, IP address and host name.

- **To make input device usage settings, touch the "ON" or "OFF" button.**

- **Touching the input device name, IP address or host name buttons will produce display of a corresponding set value input screen.**

p.84 Set Value Input Screen



6 Touch the [>] button at the bottom left of the screen.

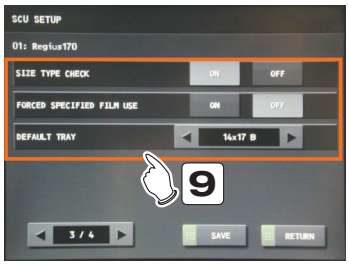
- **The SCU setting screen (2/4) will be displayed.**

7 Set the input device N-EVENT port number, AE title and DICOM error level.

- **Touching the input device N-EVENT port number, AE title buttons will produce display of a set value input screen.**
- **Use the [<][>] buttons to switch between DICOM error level settings.**

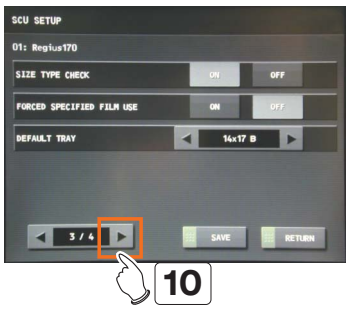
8 Touch the [>] button at the bottom left of the screen.

- **The SCU setting screen (3/4) will be displayed.**



9 Make size/type check, forced specified film use and used film size/type settings.

- **Use the ON/OFF buttons to enable or disable film size/type check and forced specified film use settings.**
- **Use the [<][>] buttons to switch between screens for used film size/type settings.**



10 Touch the [>] button at the bottom left of the screen.

- **The SCU setting screen (4/4) will be displayed.**

11 Set the empty tray notification.

- **Use the ON/OFF buttons to enable or disable empty tray notification settings.**

12 Touch the [SAVE] button.

- **Settings will be saved and display returned to the service maintenance screen.**

Touching the [Return] button during the process of making setting changes will produce display of a message requesting confirmation of whether or not to save settings.

[Yes] : Settings will be saved and display returned to the service maintenance screen.

[No] : The service maintenance screen will be displayed without saving settings.

3.7 System Setup

The procedure for making DRYPRO 793 system operational settings is described below.
The following system settings should be made.

Changing and saving system settings will result in automatic re-initialization of DRYPRO 793.

p.177 System Setup
(Web Mainte. Mode)

Item	Default	Descriptions
LOGIN PASSWORD	ON	Sets the method of moving to the maintenance mode with user privilege. For details of differences in DRYPRO 793 operation resulting from log-in password ON/OFF settings, refer to the operation manual. "ON" : Passwords are requested separately for each user. "OFF" : Passwords are not requested.
LANGUAGE SELECT	JAPANESE	Selects the language used on the operation panel and in the Web maintenance mode. Selection may be made from the following languages: **"ENGLISH"** **"GERMAN"** **"FRENCH"** **"SPANISH"** **"ITALIAN"** **"PORTUGUESE"** **"SCANDINAVIA"** **"JAPANESE"** **"CHINESE"**
LOG WRITE MODE	NORMAL	Sets the log output status. **"NORMAL"** : Normal mode **"DETAILS"** : Detailed mode Unless otherwise instructed, this should be set to "NORMAL."
MEMORY TYPE(Display only)	512	Displays the print memory size mounted in DRYPRO 793. Changes in the print memory may be checked from the displayed value. **"512"** : 512MB print memory mounted. **"1024"** : 1GB print memory mounted.
TOTAL OPERATING TIME (Display only)	0	Displays the total DRYPRO 793 operating time.
TOTAL PRINTED SHEETS (Display only)	0	Displays the total number of sheets printed by DRYPRO 793.
VERSION (Display only)	Differs depending on date of shipment	Displays current software versions operating in DRYPRO 793. Version numbers after software upgrades may be checked from this display.
MAC ADDRESS (Display only)	Differs depending on the model	Displays the DRYPRO 793 MAC address. Used for reference when WOL (Wake ON LAN) is set in the Regius console.

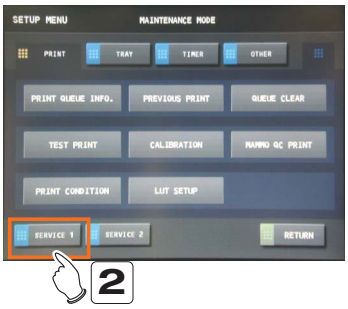
In cases where the optional memory is installed, check that "1024" is shown in the display.(No setting changes are necessary.)

The MAC address can be checked only from the DRYPRO 793 service maintenance mode.

p.127 List of Time Zones

1 Switch to the service maintenance mode.

p.86 **Switching to the Service Maintenance Mode**

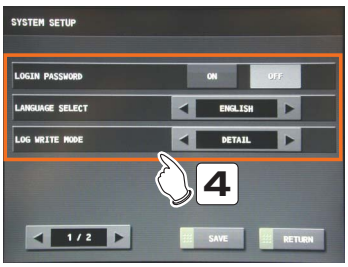


2 Touch the [SERVICE 1] button.

- **The installation setup buttons will be displayed.**

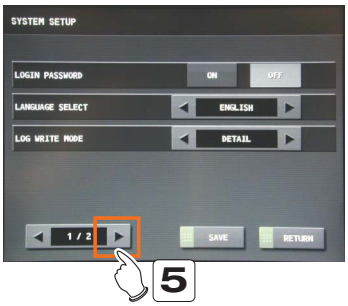
3 Touch the [SYSTEM SETUP] button.

- **The system setup screen (1/2) will be displayed.**



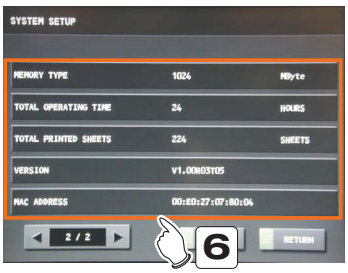
4 Set the log-in password, language used and log acquisition mode.

- **Use the ON/OFF buttons to enable or disable log-in password settings.**
- **Use the [<][>] buttons to make selections for language used and log acquisition mode settings.**



5 Touch the [>] button at the bottom left of the screen.

- **The system setup screen (2/2) will be displayed.**



6 If necessary, check the memory type, operating time, total output sheet count, software version and MAC address.

7 Touch the [SAVE] button.

- **Settings will be saved and the device automatically rebooted.**
- **After rebooting, the normal screen will be displayed.**

Touching the [Return] button during the process of making setting changes will produce display of a message requesting confirmation of whether or not to save settings.

[Yes] : Settings will be saved and display returned to the service maintenance screen.

[No] : The service maintenance screen will be displayed without saving settings.

3.8 User Registration

Procedures for registration/amendment/deletion of user information in DRYPRO 793 are described below.
A total of 16 user data maybe registered.
The following user registration setting may be made.

p.179 NEW USER
(Web Mainte. Mode)

The settings detailed below are unnecessary if the log-in password has been set to "OFF."

Item	Default	Descriptions
USER ID	01 : User01 02 : User02 03~16 : (Blank)	Sets the user name. Settings may be made within a range of 1~32 alphanumerical characters. (Cannot be input when amending user information.)
USER AUTHORITY	01 : USER LV2 02 : USER LV3 03~16 : USER LV2	Sets privileges allocated to each user. "USER LV2" : Re-output possible. "USER LV3" : Re-output possible, and settings may be changed. For details of differences in privilege at user level, refer to the DRYPRO 793 operation manual.
PASSWORD **PASSWORD (REINPUT)**	01 : 01 02 : 02 03~16 : (Blank)	Sets the password requested when the user logs in. Settings may be made within a range of 1~15 alphanumerical characters.

The user name cannot be changed when making amendments to user information.
In cases where it is necessary to change a user name, new data should be registered after deleting data for that user.

出荷時、ユーザーは次のように登録されています。

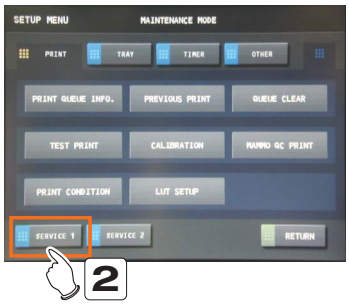
User Name	User Level	Password
USER 1	2	01
USER 2	3	02

Display of User Selection Screen

Before carrying out registration/amendment/deletion of user information, the user selection screen must first be displayed.
The procedure for displaying the user selection screen is described below.

1 Switch to the service maintenance mode.

p.86 **Switching to the Service Maintenance Mode**



2 Touch the [SERVICE 1] button.

- **The installation setup buttons will be displayed.**

3 Touch the [NEW USER] button.

- **The user selection screen will be displayed.**
- **Proceed with user information registration/amendment/deletion.**

Registering User Information

The procedure for registering new user information is described below.

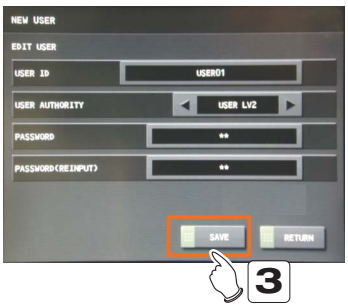
1 Touch the user name button in a blank window.

- **The user registration screen will be displayed.**

2 Set the user name, user privilege, password and password confirmation.

- **Touching the user name or user privilege will produce display of a set value input screen.**
- **Use the [<][>] buttons to switch between user privilege displays.**

p.85 Set Value Input Screen



3 Touch the [SAVE] button.

- **Settings will be saved and display returned to the service maintenance screen.**

Attempts to save incorrect information will produce display of messages.
The message displayed differs depending on the set item.

"Please input value."
→User name omitted.

"Setup data saving failed"
→User name duplicated.

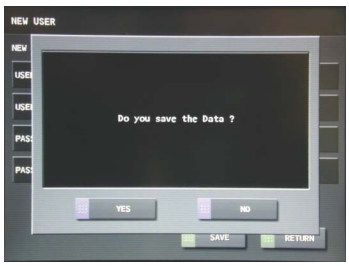
"Please be sure to input a password"
→Password omitted.

"Password is not correct"
→The password and password confirmation do not match.

Touching the [Return] button during the process of making setting changes will produce display of a message requesting confirmation of whether or not to save settings.

[Yes] : Settings will be saved and display returned to the service maintenance screen.

[No] : The service maintenance screen will be displayed without saving settings.

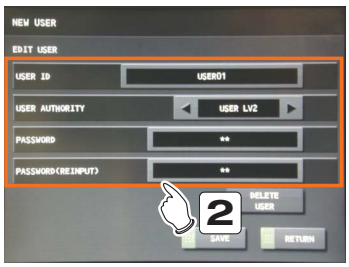


Amending User Information

The procedure for amending user information already registered is described below.

1 Touch the button corresponding to the user name for which amendments are to be carried out.

- **The user registration screen will be displayed.**

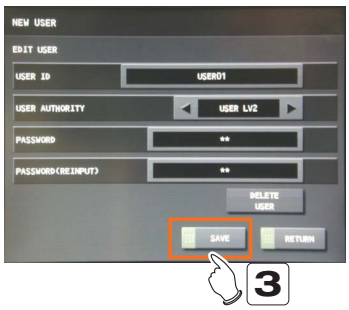


2 Set the user privilege, password and password confirmation.

- **Touching the user privilege will produce display of a set value input screen.**
- **Use the [<][>] buttons to switch between user privilege displays.**

p.85 Set Value Input Screen

The user name cannot be changed when making amendments to user information.
In cases where it is necessary to change a user name, new data should be registered after deleting data for that user.



3 Touch the [SAVE] button.

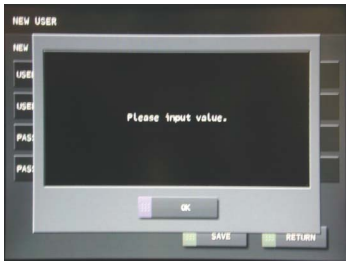
- **Settings will be saved and display returned to the service maintenance screen.**

Attempts to save incorrect information will produce display of a message.
The message displayed differs depending on the set item.

"Please input value."
→User name omitted.

"Setup data saving failed"
→User name duplicated.

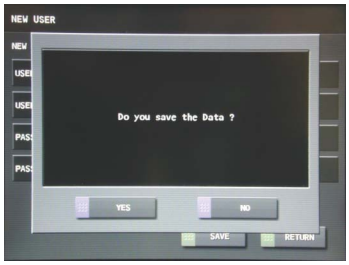
"Password is not correct"
→The password and password confirmation do not match.



Touching the [Return] button during the process of making setting changes will produce display of a message requesting confirmation of whether or not to save settings.

[Yes] : Settings will be saved and display returned to the service maintenance screen.

[No] : The service maintenance screen will be displayed without saving settings.



Deleting User Information

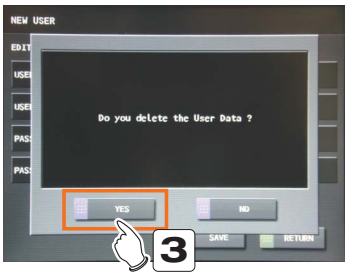
The procedure for deleting user information already registered is described below.

1 Touch the button corresponding to the user name for which deletion is to be carried out.

- **The user registration screen will be displayed.**

2 Touch the [DELETE USER] button.

- **A message requesting confirmation will be displayed.**



3 Touch the [YES] button.

- **The user information will be deleted and display returned to the user selection screen.**
- **Touching [No] will result in return to the user registration screen without deletion of information.**

3.9 Print Condition Settings

The procedure for setting print conditions for each diagnostic device connected is described below. The following print conditions may be set.

p.181 PRINT CONDITION (Web Mainte. Mode)

Item	Default	Descriptions
LUT SELECT	CH01~16 : 1	Sets the LUT number to be used. Settings may be made within a range of "1" ~ "7." For details of making LUT value settings, refer to "LUT Settings."
DENSITY	CH01~16 : 0	Sets the image density. Lower settings (-) produce lighter density, higher settings (+) darker density. Settings may be made within a range of "-7" ~ "+7."
CONTRAST	CH01~16 : 0	Sets the image contrast. Lower settings (-) produce darker contrast, higher settings (+) brighter contrast. Settings may be made within a range of "-7" ~ "+7."
SMOOTHING	CH01~16 : 2	Sets the image smoothing type. The higher the set value, the smoother the type. (Values that are too high will produce blurring.) Selection of a value of "7" will result in printing with a setting of [Integral Multiple Ratio] (Print condition setting). Settings may be made within a range of "0" ~ "7".
DENSITY MAX	CH1, CH2 : 300 CH03 : 400 CH04~16 : 300	Sets the maximum image density. Settings may be made within a range of "150" ~ "460."
DENSITY MIN	CH01~16 : 20	Sets the minimum image density. Settings may be made within a range of "10" ~ "30."
ILLUMINATION	CH01~16 : 2000	Sets the light table brilliance. Settings may be made within a range of "0" ~ "38000." Since the illumination level is usually sent by the diagnostic device, changes to this setting are not necessary.
AMBIENT LIGHT	CH01~16 : 10	Sets the ambient light. Settings may be made within a range of "0" ~ "38000." Since the illumination level is usually sent by the diagnostic device, changes to this setting are not necessary.
FLIP	CH01~16 : OFF	Sets image flip. **"ON"** : The image is printed flipped. **"OFF"** : The image is printed without being flipped.
SORTER BIN	CH01~16 : 1	Sets the destination bin number for printed film. Settings may be made within a range of "1" ~ "6." The sorter ascending/descending order setting is made under [Sorter Setup] (Other settings).
FILM ORIENTATION	CH01~16 : PORTRAIT	Sets the orientation in which film is printed. **"PORTRAIT"** : Film is printed in vertical orientation. **"LANDSCAPE"** : Film is printed in horizontal orientation.
POLARITY	CH01~16 : POSI	Sets image POSI/NEGA. **"POSI"** : POSI film is printed. **"NEGA"** : NEGA film is printed.

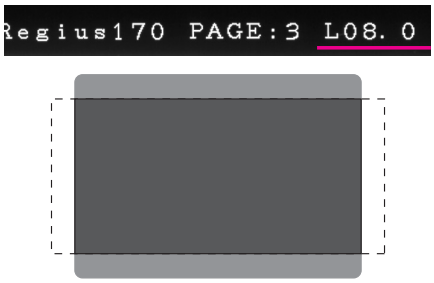
Item	Default	Descriptions
BORDER	CH01~16 : Black	Sets the film background density. **"Black"** : Film is printed with black background density. **"Clear"** : Film is printed with clear background density.
TRIM	CH01 : OFF CH02 : ON CH03 : OFF CH04~16 : ON	Sets trim to ON or OFF. **"ON"** : Film is printed with trim. **"OFF"** : Film is printed without trim.
STAMP SETUP **< TIME/DATE >**	CH01 : OFF CH02 : ON CH03 : OFF CH04~16 : ON	This setting determines whether or not film is printed with a date stamp. **"ON"** : Date is printed. **"OFF"** : Date is not printed.
STAMP SETUP **< SCU ID/PAGE NO.>**	CH1 : OFF CH2 : ON CH03 : OFF CH04~16 : ON	This setting determines whether or not film is printed with a diagnostic device ID and page number stamp. Note, however, that, even when set to ON, these stamps are not printed on small size film (10"X12", 8"X8"). **"ON"** : The diagnostic device ID and page number are printed. **"OFF"** : The diagnostic device ID and page number are not printed.
STAMP SETUP **< COPY NO. >**	CH1 : OFF CH2 : ON CH03 : OFF CH04~16 : ON	This setting determines whether or not film is printed with a print count stamp. **"ON"** : Print count is printed. **"OFF"** : Print count is not printed.
STAMP SETUP **< STAMP MESSAGE >**	CH1 : OFF CH2 : ON CH03 : OFF CH04~16 : ON	This setting determines whether or not film is printed with a message/print count stamp. If set to ON, the message may be set from the "stamp message" setting. **"ON"** : Message/print count is printed. **"OFF"** : Message/print count is not printed.
STAMP SETUP **< PATIENT ID / NAME>**	CH1 : OFF CH2 : ON CH03 : OFF CH04~16 : ON	This setting determines whether or not film is printed with a patient ID/name stamp. **"ON"** : Patient ID is printed. **"OFF"** : Patient ID is not printed.
STAMP SETUP **< PATIENT DATA >**	CH1 : OFF CH2 : ON CH03 : OFF CH04~16 : ON	This setting determines the print format of the patient ID and name. Valid only when the [Stamp Setup] <PATIENT ID> is set to ON. **"ASCII"** : Alphabetical input. **"2BYTE"** : Full size character input.
STAMP MESSAGE	CH01~16 : (Blank)	Regardless of whether full or half size characters are used, a maximum of 32 characters may be input as the message printed on the stamp. In cases where characters other than alphanumericals are set in the Web maintenance mode, the message content may be referenced, but not changed. Changes may be effected from the Web maintenance mode. Valid only when the [Stamp Setup] <STAMP MESSAGE> is set to ON.
STAMP POSITION	CH01~16 : BOTTOM	Sets the stamp position. **"BOTTOM"** : The stamp is printed at the bottom in respect of the film vertical direction. **"SIDE"** : The stamp is printed at the left/right in respect of the film horizontal direction.

Item	Default	Descriptions
EDGE ENHANCEMENT	CH1 : OFF CH2 : ON CH03 : OFF CH04~16 : ON	This setting determines whether or not edge enhancement is carried out. **"ON"** : Edge enhancement is carried out. **"OFF"** : Edge enhancement is not carried out.
BORDER SIZE	CH1 : REGIUS CH2 : CT_MRI CH03 : REGIUS CH04~16 : CT_MRI	This setting determines the border size. **"REGIUS"** : Regius border size. **"CT_MRI"** : CT, MRI border size. **"CUSTOM"** : Custom border size (Details may only be set in from the Web maintenance mode.)
ENLARGED CHARACTER	CH01~16 : OFF	Sets the stamp (patient name) print size. **"ON"** : The patient information is printed in enlarged format. **"OFF"** : The patient information is printed in normal size. ex)
REQUESTED IMAGE SIZE	CH01~16 : EFFECTIVE	Sets operation for cases where the image size is specified from the diagnostic device. **"EFFECTIVE"** : The image is printed in accordance with the specified size. Operation when the specified size exceeds the active film size differs depending on the setting made under [Behavior]. **"INVALID"** : The size specification is ignored.
BEHAVIOR	CH01~16 : DECIMATE	Sets operation to be carried out when the size specified from the diagnostic device exceeds the active film size. **"DECIMATE"** : The printed image size is reduced. **"CROP"** : The printed image is cropped.

Operation when the size specified from the diagnostic device exceeds the actual film size is described below. (Valid only when [Requested Image Size] is set to "EFFECTIVE."

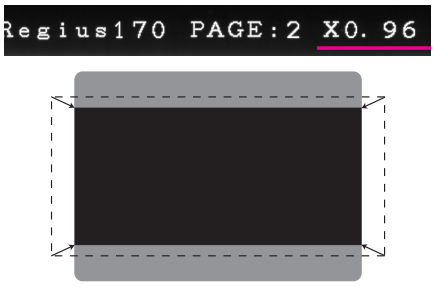
<Conditions for cropping printed image size>
- [Behavior] is set to"CROP."
- The maximum cropped portion does not exceed a length of 400mm of the specified dimensions.
- The enlarged image does not exceed the vertical film size.

→The image is printed cropped at left and right with the cropped length output as stamp information.



<Conditions for printing reduced image size>
- Above conditions do not apply.

→The printed image size is reduced and the reduction ratio output as stamp information.

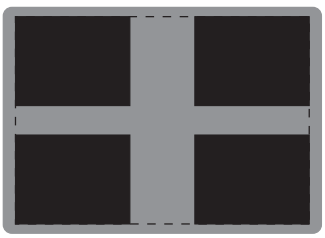


Item	Default	Descriptions
INTEGRAL MULTIPLE RATIO	CH01~16 : 1	Sets the enlargement ratio valid when smoothing is set "7." Used, for example, when the user wishes to specify print size, but the diagnostic device cannot send a specific size infomation of the requested image. Settings may be made within a range of "1" ~ "32."
P VALUE RECEIVE	CH01~16 : OFF	Sets image gray scale conversion ON or OFF. Unless otherwise instructed, this setting need not be changed. **"ON"** : Gray scale conversion is carried out using the P value. **"OFF"** : Gray scale conversion is carried out using the previous method.
FORMAT	CH01 : CENTER CH02 : EVEN CH03 : CENTER CH04~16 : EVEN	This setting determines space allocation between frames in multi-format printing. **"CENTER"** : Central allocation. **"EVEN"** : Even allocation. **"H CENTER"** : Central allocation (When diagnostic device is of Hitachi manufacture) **"H EVEN"** : Even allocation (When diagnostic device is of Hitachi manufacture)

The methods of allocation depending on format type are shown below.

<Central Allocation>
Spaces between frames are equal with margins at left and right sides expanded.

<Even Allocation>
Spaces between frames are expanded, leaving the upper/lower/left/right margins unchanged.



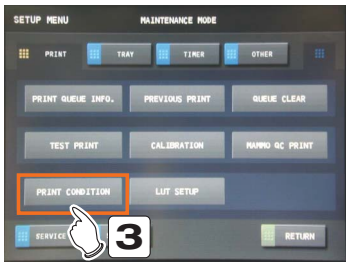
Item	Default	Descriptions
DEFAULT DMIN/DMAX	CH01~16 : DICOM	Sets acquisition target of maximum/minimum density values used only for image processing. **"DICOM"** : The value specified by the diagnostic device is used. **"P-CON"** : Maximum/minimum density data included in "LUT SETUP" is used. The LUT used is specified from the diagnostic device.
DICOM PRIORITY	CH01~16 : OFF	Sets acquisition of parameters used for printing. **"ON"** : Uses values input in print condition settings. **"OFF"** : Uses values input in the diagnostic device. The following items may be set. - LUT - SMOOTHING - DENSITY MAX - DENSITY MIN - POLARITY (NEGA/POSI) - ORIENTATE - TRIM - BORDER (Background density) - SORTER (Sorter destination bin)

1 Switch to the service maintenance mode.

p.86 **Switching to the Service Maintenance Mode**

2 Touch the [PRINT] button.

- **Print setting buttons will be displayed.**



3 Touch the [PRINT CONDITION] button.

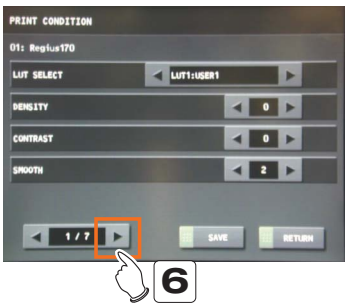
- **An input device selection screen will be displayed.**

4 Touch the button corresponding to the channel to be set.

- **The print condition setting screen (1/7) will be displayed.**

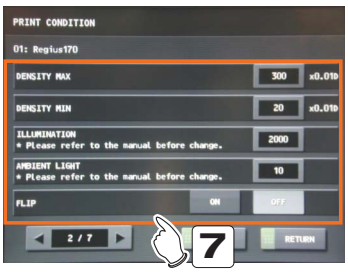
5 Make LUT selection, density (dark/light), contrast (strong/weak) and smoothing settings.

- **Use the [<][>] buttons to switch between the selection for LUT selection, density (dark/light), contrast (strong/weak) and smoothing settings.**



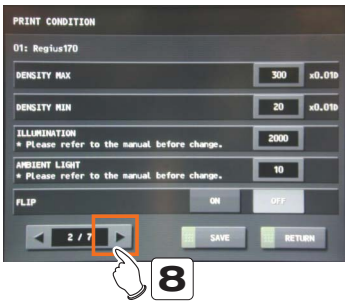
6 Touch the [>] button at the bottom left of the screen.

- **The print condition setting screen (2/7) will be displayed.**



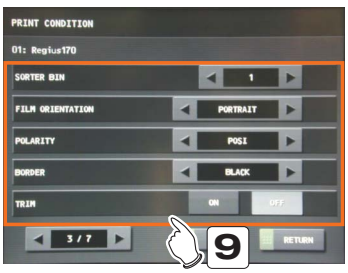
7 Make maximum/minimum density, illumination, ambient light and flip settings.

- **Touching maximum/minimum density, illumination and ambient light buttons produces display of a set value input screen.**
- **Make the flip setting by touching either the ON or OFF button.**



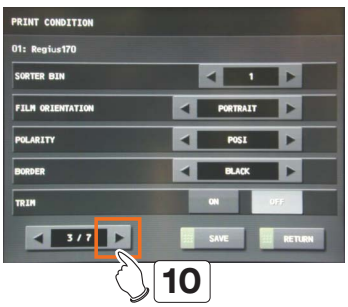
8 Touch the [>] button at the bottom left of the screen.

- **The print condition setting screen (3/7) will be displayed.**



9 Make sorter destination bin, film orientation, nega/posi, background density and trim settings.

- **Use the [<][>] buttons to switch between the selection for sorter destination bin, film orientation, nega/posi, and background density settings.**
- **Make the trim setting by touching either the ON or "OFF" button.**

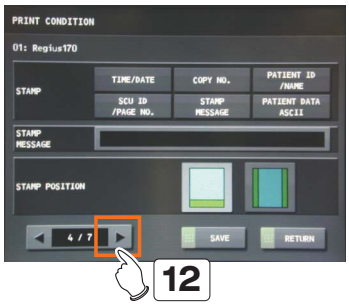


10 Touch the [>] button at the bottom left of the screen.

- **The print condition setting screen (4/7) will be displayed.**

11 Make stamp, stamp message and position settings.

- **Pushing the stamp setting button switches between ON and OFF.**
- **Touching the stamp message display window produces display of a set value input screen.**
- **Select the stamp position by touching either the "BOTTOM" or "SIDE" button.**

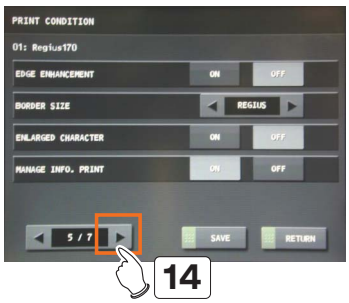


12 Touch the [>] button at the bottom left of the screen.

- **The print condition setting screen (5/7) will be displayed.**

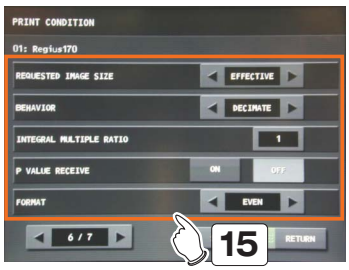
13 Make edge enhancement, border size and enlarged character settings

- **Make the edge enhancement and character enlargement settings by touching either the ON or OFF button.**
- **Use the [<][>] buttons to switch between border size settings.**



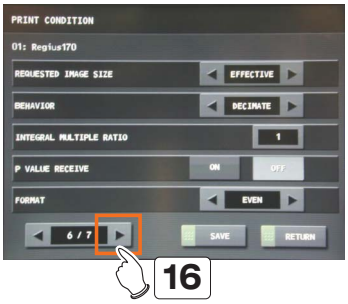
14 Touch the [>] button at the bottom left of the screen.

- **The print condition setting screen (6/7) will be displayed.**



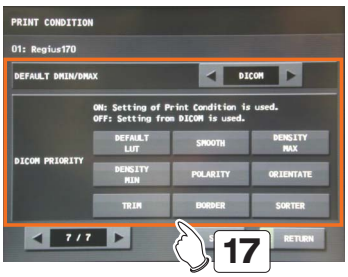
15 Make requested image size, behavior, integral multiple ratio, P value receive mode and format settings.

- **Use the [<][>] buttons to switch between the selections for requested image size, behavior and format settings.**
- **Touching the integral multiple ratio window produces display of a set value input screen.**
- **Make the P value receive settings by touching either the ON or OFF button.**



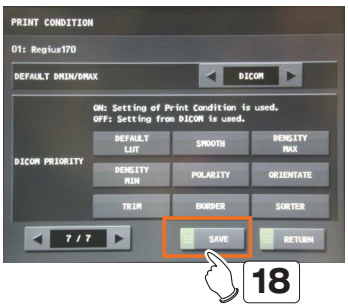
16 Touch the [>] button at the bottom left of the screen.

- **The print condition setting screen (7/7) will be displayed.**



17 Make default dmin/dmax and DICOM priority settings.

- **Use the [<][>] buttons to switch between default dmin/dmax settings.**
- **Make the DICOM priority settings by touching either the "ON" or "OFF" button.**



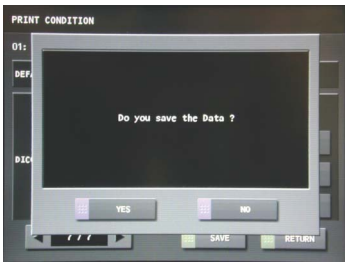
18 Touch the [SAVE] button.

- **Settings will be saved and display returned to the service maintenance screen.**

Touching the [Return] button during the process of making setting changes will produce display of a message requesting confirmation of whether or not to save settings.

[Yes] : Settings will be saved and display returned to the service maintenance screen.

[No] : The service maintenance screen will be displayed without saving settings.



3.10 LUT Settings

An outline of DRYPRO 793 LUTs is presented below.

A maximum of 7 LUT data may be registered in DRYPRO 793 for one diagnostic device.

LUT data may be registered in one of the following three ways.

(1) Registration of LUT data read from the DRYPRO 793 internal library.

(2) Registration of LUT data read from the DRYPRO 793 internal library after making fine adjustments.

(3) Registration of newly created LUT data.

p.186 LUT SETUP
(Web Mainte. Mode)

A list of LUT data in the DRYPRO 793 internal library is set out below.

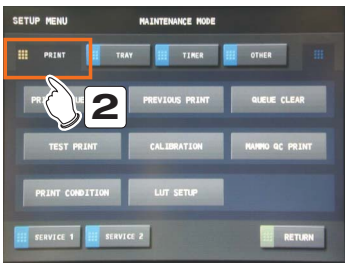
LUT Name	Modality	Film	Description
CT&MR_KC_B	CT/MR	Blue	LUT of our recommendation for blue base film on CT/MR.
CT&MR_LOW_B			LUT with slightly lower density setting than CT&MR_KC_B.
CT&MR_HIGH_B			LUT with slightly higher density setting than CT&MR_KC_B.
CT&MR_KC_C		Clear	LUT of our recommendation for clear base film on CT/MR.
CT&MR_LOW_C			LUT with slightly lower density setting than CT&MR_KC_C.
CT&MR_HIGH_C			LUT with slightly higher density setting than CT&MR_KC_C.
SIEMENS_CT_B		Blue	LUT of our recommendation for blue base film on Siemens CT.
PHIL_CT&MR_B			LUT of our recommendation for blue base film on Philips CT/MR.
LINEAR	CR	Blue/clear	LUT of our recommendation for use on CR.
SENOGRAPHE_K		Mammo	LUT of our recommendation for Mammo film on SENOGRAPHE of GEYMS.
SENOGRAPHE_A			LUT with slightly higher density setting than SENOGRAPHE_K.
P-RECEIVE300		Blue/clear	LUT of our recommendation for blue/clear film using "P" value.
P-RECEIVE400		Mammo	LUT of our recommendation for Mammo film using "P" value.
DSA_KC_B	DSA	Blue	LUT of our recommendation for blue base film on DSA.
DSA_LOW_B			LUT with slightly lower density setting than DSA_KC_B.
DSA_HIGH_B			LUT with slightly higher density setting than DSA_KC_B.
DSA_LINEAR_B			Linear LUT for blue base film on DSA.
DSA_KC_C		Clear	LUT of our recommendation for clear base film on DSA.
DSA_LOW_C			LUT with slightly lower density setting than DSA_KC_C.
DSA_HIGH_C			LUT with slightly higher density setting than DSA_KC_C.
DSA_LINEAR_B			Linear LUT for clear base film on DSA.
US_KC_B	US	Blue	LUT of our recommendation for blue base film on US.
US_LOW_B			LUT with slightly lower density setting than US_KC_B.
US_HIGH_B			LUT with slightly higher density setting than US_KC_B.
US_KC_C		Clear	LUT of our recommendation for clear base film on US.
US_LOW_C			LUT with slightly lower density setting than US_KC_C.
US_HIGH_C			LUT with slightly higher density setting than US_KC_C.
RI_KC_B	RI	Blue	LUT of our recommendation for blue base film on RI.
RI_LOW_B			LUT with slightly lower density setting than RI_KC_B.
RI_HIGH_B			LUT with slightly higher density setting than RI_KC_B.
RI_KC_C		Clear	LUT of our recommendation for clear base film on RI.
RI_LOW_C			LUT with slightly lower density setting than RI_KC_C.
RI_HIGH_C			LUT with slightly higher density setting than RI_KC_C.
DR_KC_B	DR	Blue	LUT of our recommendation for blue base film on DR.
DR_LOW_B			LUT with slightly lower density setting than RI_KC_B.
DR_HIGH_B			LUT with slightly higher density setting than RI_KC_B.
DR_KC_C		Clear	LUT of our recommendation for clear base film on DR.
DR_LOW_C			LUT with slightly lower density setting than RI_KC_C.
DR_HIGH_C			LUT with slightly higher density setting than RI_KC_C.
HIT_CLAVIS_B		Blue	LUT of our recommendation for clear base film on CLAVIS of Hitachi

Displaying the LUT Selection Screen

Whichever method of LUT registration is used, the LUT selection screen must first be displayed.
The procedure for displaying the LUT selection screen is described below.

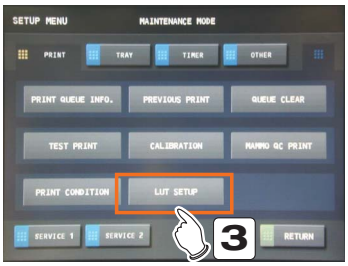
1 Switch to the service maintenance mode.

p.86 **Switching to the Service Maintenance Mode**



2 Touch the [PRINT] button.

- **Print setting buttons will be displayed.**



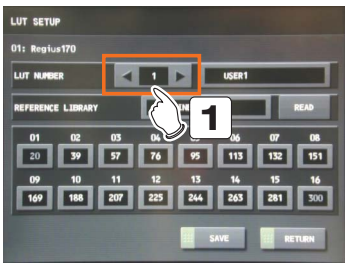
3 Touch the [LUT SETUP] button.

- **The LUT setting screen will be displayed.**

- **Proceed with LUT registration in one of the following three ways.**
  (1) Registration of LUT data read from the DRYPRO 793 internal library.
  (2) Registration of LUT data read from the DRYPRO 793 internal library after making fine adjustments.
  (3) Registration of newly created LUT data.

(1) Registration of LUT data read from the DRYPRO 793 internal library.

The procedure for registration of LUT data read from the DRYPRO 793 internal library is described below.



1 Select the LUT number to be registered by touching the scroll buttons at the left and right of the edit LUT number.

2 Touch the [REFERENCE LIBRARY] button.

- **The LUT library screen will be displayed.**

3 Using the left/right scroll buttons, select the diagnostic device.

- **The LUT name corresponding to the selected device will be displayed.**

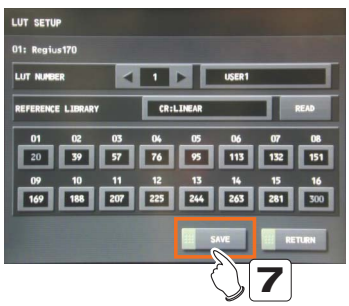
4 Touch the LUT name to be registered.

5 Touch the [RETURN] button.

- **The LUT setting screen will be displayed.**

6 Touch the [READ] button.

- **The reference library will be read and displayed at next to the edit LUT number.**
- **The LUT value display will also be changed to the LUT value read.**



7 Touch the [SAVE] button.

- **Settings will be saved and display returned to the service maintenance screen.**

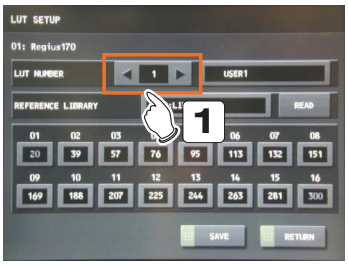
Touching the [Return] button during the process of making setting changes will produce display of a message requesting confirmation of whether or not to save settings.

[Yes] : Settings will be saved and display returned to the service maintenance screen.

[No] : The service maintenance screen will be displayed without saving settings.

(2) Registration of LUT data read from the DRYPRO 793 internal library after making fine adjustments.

The procedure for registration of LUT data read from the DRYPRO 793 internal library after making fine adjustments is described below.



1 Select the LUT number to registered by touching the scroll buttons at the left and right of the edit LUT number.

2 Touch the [REFERENCE LIBRARY] button.

- **The LUT library screen will be displayed.**

3 Using the left/right scroll buttons, select the diagnostic device.

- **The LUT name corresponding to the selected device will be displayed.**

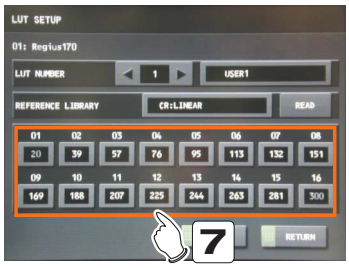
4 Touch the LUT name to be registered.

5 Touch the [RETURN] button.

- **The LUT setting screen will be displayed.**

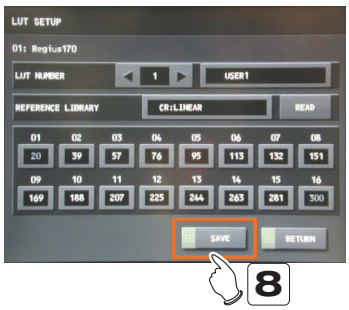
6 Touch the [READ] button.

- **The reference library will be read and displayed at next to the edit LUT number.**
- **The LUT value display will also be changed to the LUT value read.**



7 To change the value of one of the LUT value buttons, touch the desired button (0 ~ 16).

- **Touching a LUT value button will produce display of a set value input screen.**



8 Touch the [SAVE] button.

- **Settings will be saved and display returned to the service maintenance screen.**

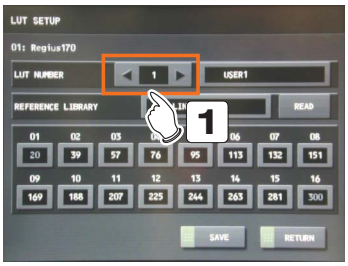
Touching the [Return] button during the process of making setting changes will produce display of a message requesting confirmation of whether or not to save settings.

[YES] : Settings will be saved and display returned to the service maintenance screen.

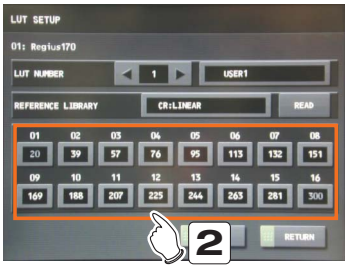
[NO] : The service maintenance screen will be displayed without saving settings.

(3) Registration of newly created LUT data.

The procedure for registration of newly created LUT data is described below.

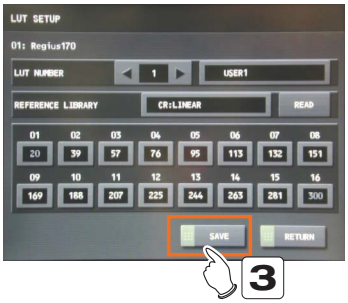


1 Select the LUT number to be registered by touching the scroll buttons at the left and right of the edit LUT number.



2 To change the LUT value, touch the desired LUT value button (0 ~ 16).

- **Touching a LUT value button will produce display of a set value input screen.**



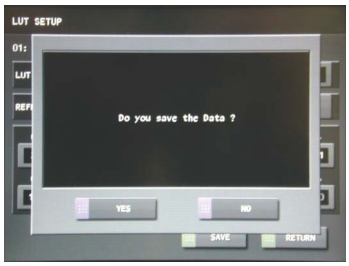
3 Touch the [SAVE] button.

- **Settings will be saved and display returned to the service maintenance screen.**

Touching the [Return] button during the process of making setting changes will produce display of a message requesting confirmation of whether or not to save settings.

[YES] : Settings will be saved and display returned to the service maintenance screen.

[NO] : The service maintenance screen will be displayed without saving settings.



3.11 Time Set

The procedure for making changes to the DRYPRO 793 internal clock and for setting time.date display formats is described below.

To change the area code, first change the area code and proceed with time and date settings after the device has automatically rebooted.
Time and date settings made before rebooting will be cleared.

p.188 TIME SET
(Web Mainte. Mode)

Item	Default	Descriptions
DATE	(System Date)	Sets the internal clock date. Settings may be made within a range of "1970/1/1" ~ "2037/12/31."
TIME	(System Time)	Sets the internal clock time. Settings may be made within a range of "0:00" ~ "23:59" or "AM12:00" ~ "PM11:59."
TIME ZONE	64	Sets the code number for the region where the device is installed. For code numbers, refer to the "List of Time Zones".(p.127) Settings may be made within a range of "1" ~ "74."
DATE FORMAT	YYYY MMM DD	Sets the date display format. Settings made here will be reflected not only in the device itself, but also in stamps printed on films. **"YYYY MM DD"** : Y/M/D (Month expressed as a numerical value) **"MM DD YYYY"** : M/D/Y (Month expressed as a numerical value) **"DD MM YYYY"** : D/M/Y (Month expressed as a numerical value) **"YYYY MMM DD"** : Y/M/D (Month expressed alphabetically) **"MMM DD YYYY"** : M/D/Y (Month expressed alphabetically) **"DD MMM YYYY"** : D/M/Y (Month expressed alphabetically)
TIME FORMAT	hh : mm	Sets the time display format. Settings made here will be reflected not only in the device itself, but also in stamps printed on films. **"hh : mm"** : Hour+Minute (24-hour format) **"tt hh : mm"** : AM/PM+Hour+Minute (12-hour format) **"hh : mm tt"** : Hour+Minute+AM/PM (12-hour format)
DATE SEPARATOR	- (Hyphen)	Sets the date delineator. Settings made here will be reflected not only in the device itself, but also in stamps printed on films. **" / "** : Slash Ex.)2005/12/24 **" - "** : Hyphen Ex.)2005-12-24 **" . "** : Period Ex.)2005.12.24 **" "** : Space Ex.)2005 12 24

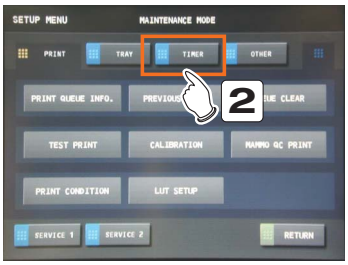
Month formats are as follows:

	January	February	March	April	May	June
Numerical Format(MM)	01	02	03	04	05	06
Alphabetical Format(MMM)	JAN	FEB	MAR	APR	MAY	JUN

	July	August	September	October	November	December
Numerical Format(MM)	07	08	09	10	11	12
Alphabetical Format(MMM)	JUL	AUG	SEP	OCT	NOV	DEC

1 Switch to the service maintenance mode.

p.86 **Switching to the Service Maintenance Mode**



2 Touch the [TIMER] button.

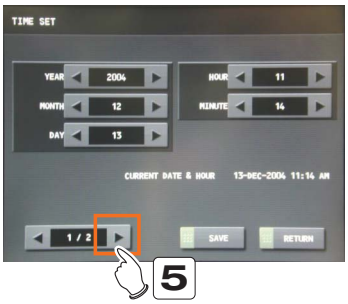
- **The timer setup buttons will be displayed.**

3 Touch the [TIME SET] button.

- **The current time/date setup screen (1/2) will be displayed.**

4 Set the year, month, day, hour and minute.

- **Use the [<][>] buttons to set the year, month, day, hour and minute.**
- **Changes will be reflected in the current time/date display at the bottom right of the screen.**

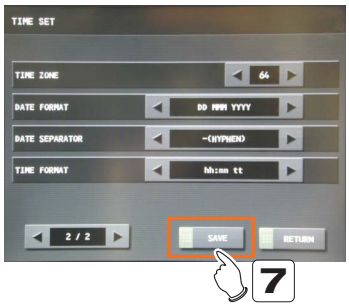


5 Touch the [>] button at the bottom left of the screen.

- **The current time/date setup screen (2/2) will be displayed.**

6 Set the area code, date format, time format and date delineator.

- **Use the [<][>] buttons to set the area code, date format, time format and date delineator.**



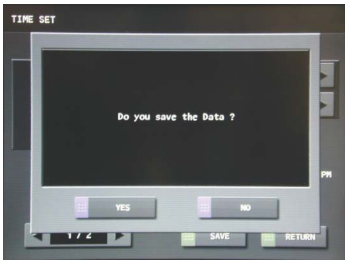
7 Touch the [SAVE] button.

- **Settings will be saved and display returned to the service maintenance screen.**

Touching the [Return] button during the process of making setting changes will produce display of a message requesting confirmation of whether or not to save settings.

[YES] : Settings will be saved and display returned to the service maintenance screen.

[NO] : The service maintenance screen will be displayed without saving settings.



List of Time Zones

Time zones and codes are shown below.

Time Code	Time Zone	Summer Time	Time Code	Time Zone	Summer Time
1	Afghanistan Standard Time	OFF	38	Israel Standard Time	OFF
2	Alaskan Standard Time	ON	39	Korea Standard Time	OFF
3	Arab Standard Time	OFF	40	Mexico Standard Time	ON
4	Arabian Standard Time	OFF	41	Mid-Atlantic Standard Time	ON
5	Arabic Standard Time	ON	42	Mountain Standard Time	ON
6	Atlantic Standard Time	ON	43	Myanmar Standard Time	OFF
7	AUS Central Standard Time	OFF	44	N. Central Asia Standard Time	ON
8	AUS Eastern Standard Time	ON	45	Nepal Standard Time	OFF
9	Azores Standard Time	ON	46	New Zealand Standard Time	ON
10	Canada Central Standard Time	OFF	47	Newfoundland Standard Time	ON
11	Cape Verde Standard Time	OFF	48	North Asia East Standard Time	ON
12	Caucasus Standard Time	ON	49	North Asia Standard Time	ON
13	Cen. Australia Standard Time	ON	50	Pacific SA Standard Time	ON
14	Central America Standard Time	OFF	51	Pacific Standard Time	ON
15	Central Asia Standard Time	OFF	52	Romance Standard Time	ON
16	Central Europe Standard Time	ON	53	Russian Standard Time	ON
17	Central European Standard Time	ON	54	SA Eastern Standard Time	OFF
18	Central Pacific Standard Time	OFF	55	SA Pacific Standard Time	OFF
19	Central Standard Time	ON	56	SA Western Standard Time	OFF
20	China Standard Time	OFF	57	Samoa StandardTime	OFF
21	Dateline Standard Time	OFF	58	SE Asia Standard Time	OFF
22	E. Africa Standard Time	OFF	59	Singapore Standard Time	OFF
23	E. Australia Standard Time	OFF	60	South Africa Standard Time	OFF
24	E. Europe Standard Time	ON	61	Sri Lanka Standard Time	OFF
25	E. South America Standard Time	ON	62	Taipei Standard Time	OFF
26	Eastern Standard Time	ON	63	Tasmania Standard Time	ON
27	Egypt Standard Time	ON	64	Tokyo Standard Time	OFF
28	Ekaterinburg Standard Time	ON	65	Tonga Standard Time	OFF
29	Fiji Standard Time	OFF	66	US Eastern Standard Time	OFF
30	FLE Standard Time	ON	67	US Mountain Standard Time	OFF
31	GMT Standard Time	ON	68	Vladivostok Standard Time	ON
32	Greenland Standard Time	ON	69	W. Australia Standard Time	OFF
33	Greenwich Standard Time	OFF	70	W. Central Africa Standard Time	OFF
34	GTB Standard Time	ON	71	W. Europe Standard Time	ON
35	Hawaiian Standard Time	OFF	72	West Asia Standard Time	OFF
36	India Standard Time	OFF	73	West Pacific Standard Time	OFF
37	Iran Standard Time	ON	74	Yakutsk Standard Time	ON

3.12 Maintenance Schedule

The procedure for initializing the DRYPRO 793 Maintenance schedule is described below.
During installation, the time elapsed between shipment and installation must be reset. All the items shown below must be reset.
Maintenance schedule items to be initialized are shown below.

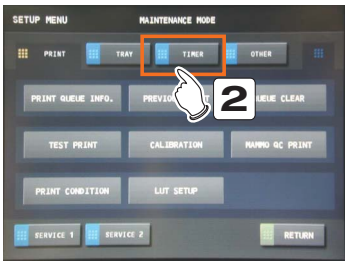
p.190 MAINTENANCE SCHEDULE SETUP (Web Mainte. Mode)

Item	Descriptions
MAINTENANCE A	Returns inspection schedule-A (every 40,000 sheets or 2 years) to the factory setting. <Details> - Deodorant filter replacement (deodorant unit)
MAINTENANCE C	Returns inspection schedule-C (every 20,000 sheets) to the factory setting. <Details> - Opposing roller cleaning (HPRO unit) - Cleaning of the HPRO drum with alcohol (HPRO unit) - Cleaning of secondary cooling guide with alcohol (cooling conveyor unit) - Dust removal from cooling air intakes (cooling unit) - Dust removal from the area surrounding the deodorant filter case (cooling conveyor unit) - Cleaning sheet cleaning (descent transport unit) - Cleaning of suction cups with alcohol (supply unit) - Densitometer cleaning (cooling conveyor unit) - Overall dust removal from the entire device
MAINTENANCE D	Returns inspection schedule-C (every 40,000 sheets) to the factory setting. <Details> - HPRO drum bearing replacement (HPRO unit) - Separator unit replacement (HPRO unit) - HPRO cover replacement (HPRO unit) - Cleaning of insertion guide unit with alcohol (HPRO unit) - Opposing roller cleaning pad replacement (HPRO unit) - Cleaning of primary cooling guide with alcohol (cooling conveyor unit) - Unwovenfabric roller replacement (cooling conveyor unit)
CLEANING	Returns inspection schedule (every 2,000 sheets only when mammography film is loaded) to the factory setting. [Icon] button : Sets display/non-display of cleaning icon. **ON** : The cleaning icon is displayed when inspection becomes due. **OFF** : The cleaning icon is not displayed even if inspection is due.
HDD	Returns inspection schedule (every 20,000 running hours or 5 years) to the factory setting.
FILTER	Returns the deodorant filter replacement schedule to the factory setting.

For details of cleaning and replacement procedures, refer to the service manual.

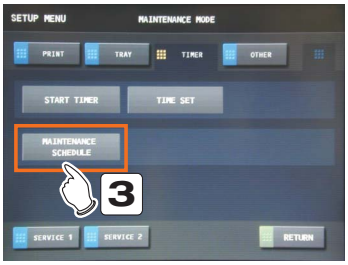
1 Switch to the service maintenance mode.

p.86 **Switching to the Service Maintenance Mode**



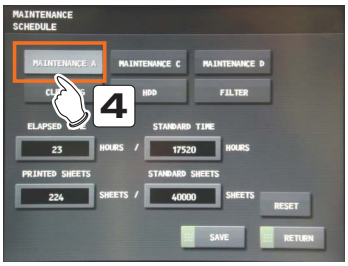
2 Touch the [TIMER] button.

- **The timer setup buttons will be displayed.**



3 Touch the [MAINTENANCE SCHEDULE] button.

- **The maintenance schedule screen will be displayed.**



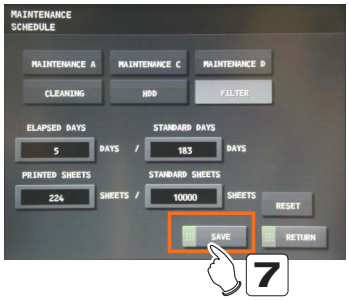
4 Touch the [MAINTENANCE A] button.

- **The maintenance schedule-A cycle will be displayed.**

5 Touch the [RESET] button.

- **The maintenance schedule-A elapsed time and sheet count values will be reset.**

6 In the same way, reset the [MAINTENANCE C], [MAINTENANCE D], [CLEANING], [HDD] (Hard Disk Drive) and [FILTER] schedules.



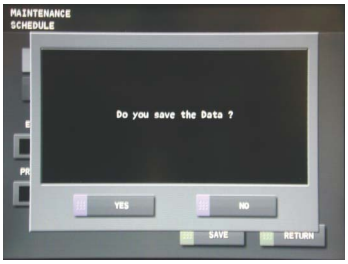
7 Touch the [SAVE] button after resetting all schedules.

- **Settings will be saved and display returned to the service maintenance screen.**

Touching the [Return] button during the process of making setting changes will produce display of a message requesting confirmation of whether or not to save settings.

[YES] : Settings will be saved and display returned to the service maintenance screen.

[NO] : The service maintenance screen will be displayed without saving settings.



3.13 Sorter Setup

Sets the DRYPRO 793 sorter usage status.
Settings are unnecessary in cases where the sorter is not used.
The following sorter settings should be made.

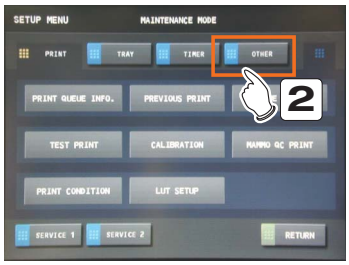
p.191 SORTER SETUP (Web Mainte. Mode)

Item	Default	Descriptions
SORTER USE	OFF	Sets the sorter usage status. **"ON"** : Sorter used. **"OFF"** : Sorter not used.
FIRST BIN	(Descending order)	Sets sorter number sequence. **"(Descending order)"** : Bins are allocated in order from the highest number. **"(Ascending order)"** : Bins are allocated in order from the lowest number.
SORTER BIN SELECT TEST PRINT	Bottom bin	Sets the destination bin for test prints. **"Top bin"** : Output to the top bin. **"Bottom bin"** : Output to the bottom bin.
SORTER BIN SELECT JAM FILM	Bottom bin	Sets film destination bin for use when a film jam occurs. **"Top bin"** : Output to the top bin. **"Bottom bin"** : Output to the bottom bin.
SORTER BIN SELECT SMALL SIZE FILM	DICOM/Printer condition	Sets the film destination bin when small film sizes are used (10"X12", 8"X10"). **"Top bin"** : Output to the top bin. **"Bottom bin"** : Output to the bottom bin. **"DICOM/Print condition"** : Output to bin specified in DICOM receipt value, or in the print setup.

When the sorter option is mounted, [Sorter Use] must be set to ON.
Changes to settings should be made after the sorter has been installed in DRYPRO 793.
Changes to settings before sorter installation may result in error.

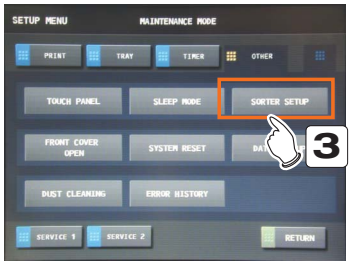
1 Switch to the service maintenance mode.

p.86 **Switching to the Service Maintenance Mode**



2 Touch the [OTHER] button.

- **The other setup buttons will be displayed.**

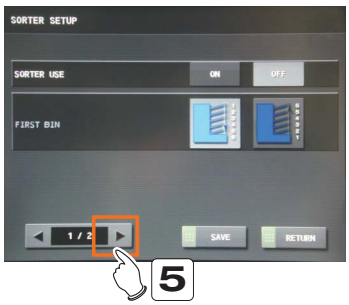


3 Touch the [SORTER SETUP] button.

- **The sorter setup screen (1/2) will be displayed.**

4 Make sorter usage and first bin settings.

- **Make sorter usage settings by touching the ON or OFF button.**
- **Make first bin settings by touching either the "123456" (ascending order) or "654321"(descending order) buttons.**



5 Touch the [>] button at the bottom left of the screen.

- **The sorter setup screen (2/2) will be displayed.**

6 Make test print destination, jammed film destination and small film size destination settings.

- **Use the [<][>] to make settings for each item.**

7 Touch the [SAVE] button.

- **Settings will be saved and display returned to the service maintenance screen.**

Touching the [Return] button during the process of making setting changes will produce display of a message requesting confirmation of whether or not to save settings.

[YES] : Settings will be saved and display returned to the service maintenance screen.

[NO] : The service maintenance screen will be displayed without saving settings.

Chap. 4

Checking Image Quality

This chapter details procedures for checking that images output from DRYPRO 793 comply with standards.
In cases where the image output does not comply with standards, the service maintenance tool may be used to make image adjustments.

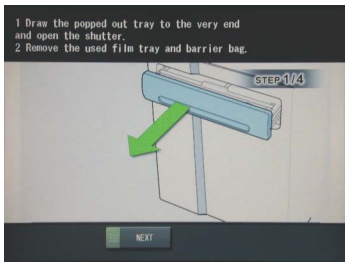
4.1 Loading Film

Film should be loaded after completion of DRYPRO 793 settings.

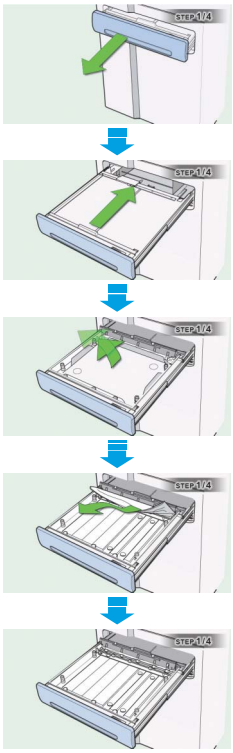
1 Touch the [FILM SET] button.

- **A message indicating that the tray is being open is displayed.**

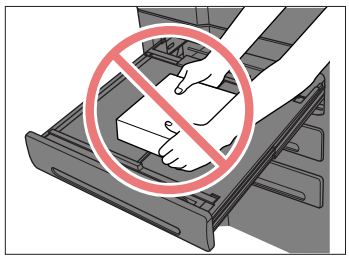
- **The supply tray will open a few centimeters and an animated display of the film loading procedure (pulling out the tray, removal of protective cardboard sheet and light proof bag) shown.**

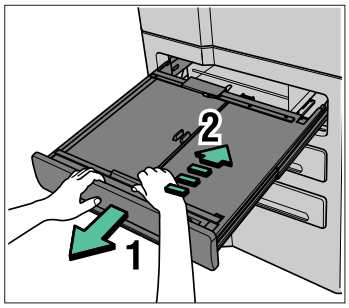


Animated display of procedure for pulling out the tray, removal of protective cardboard sheet and light proof bag.



Do not place objects on or lean on the supply tray in extended position.
Doing so may cause damage.

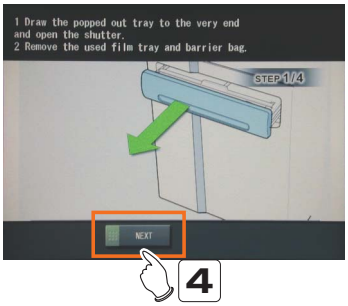




2 Slowly pull the supply tray out to its fully extended position.

3 Open the supply tray shutter.

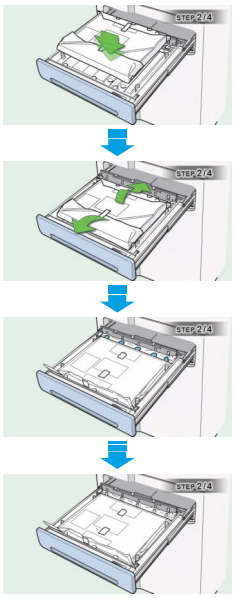
The supply tray shutter may be opened only with the supply tray in its fully extended position.

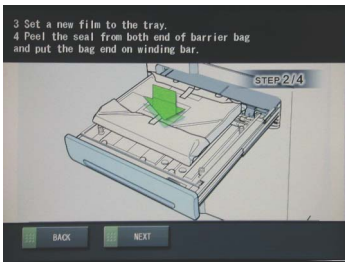


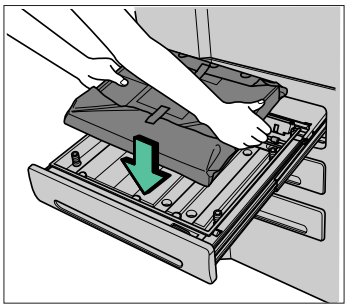
4 Touch the [NEXT] button on the operation panel.

- **An animated display of the of the procedure for loading film (film setting) will be shown.**

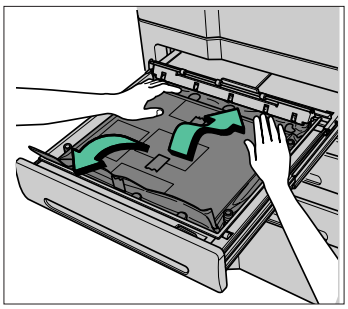
Animated display of film setting.





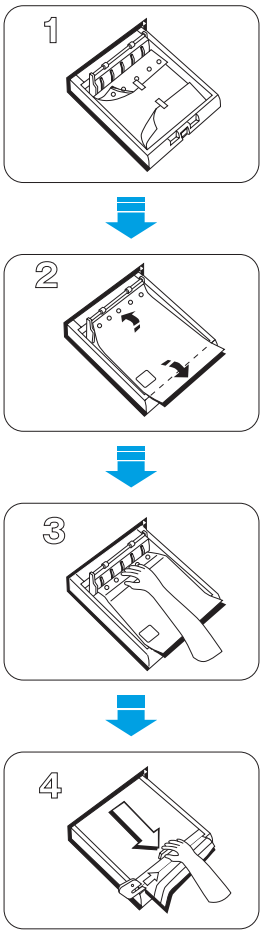


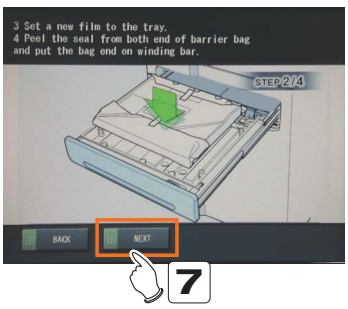
5 Take out the new film package from its box and load it into the supply tray with the bar code at the front left.



6 Remove the seal and open the front and rear edges.

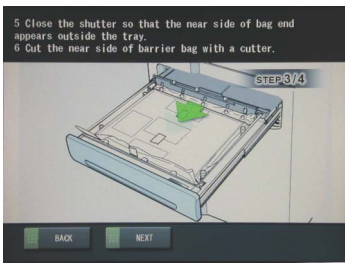
Illustration on the film package

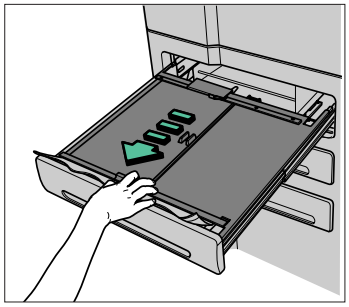




7 Touch the [NEXT] button on the operation panel.

- An animated display of the procedure for loading film (closing shutter ~ cutting light proof bag) will be shown.

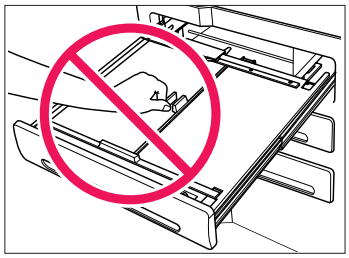

5 Close the shutter so that the near side of bag end appears outside the tray.
6 Cut the near side of barrier bag with a cutter.
STEP 3/4
BACK
NEXT

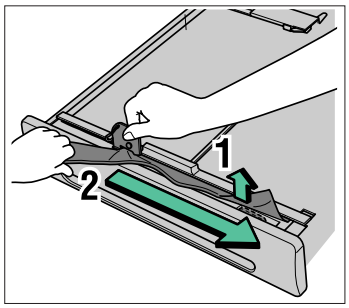


8 Insert the rear (far) edge of the package firmly between the hold down plate and the winding shaft spindle.

9 Ensure the front (near) edge protrudes from the shutter and firmly close the shutter.

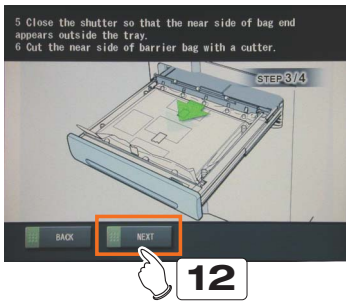
Do not touch the knob on the shutter.
Doing so my expose the film.





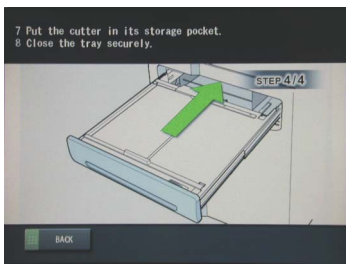
10 Take the cutter out of the cutter pocket.

11 Cut off the protruding front edge of the package.

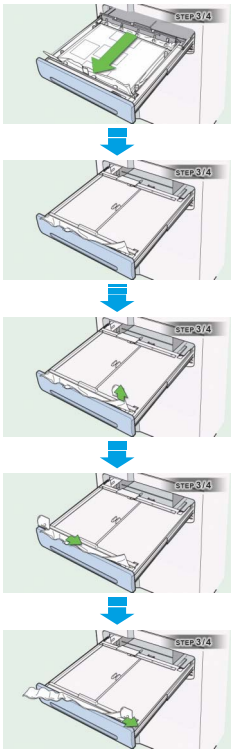

5 Close the shutter so that the near side of bag end appears outside the tray.
6 Cut the near side of barrier bag with a cutter.
STEP 3/4
BACK
NEXT
12

12 Touch the [Next] button.

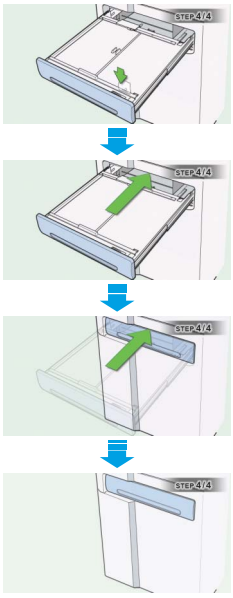
- An animated display of the film loading procedure (returning cutter - closing tray) will be shown.

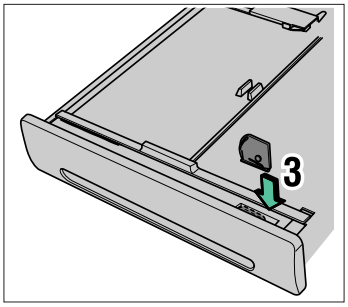


Animated display showing closing of the shutter - removal of light proof bag.

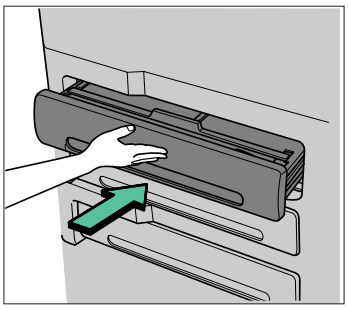


Animated display showing returning the cutter - closing the tray.





13 Return the cutter to the cutter pocket (location 3 at left).



14 Push the supply tray back into the main body until it locks in position.

- **Pushing the tray back into its original position will produce display of the message "The tray is getting ready. Please wait..."**

- **Successful loading of the film will be followed by display of the message "Ready" on the operation panel, indicating that the device is ready to print.**

15 Repeat steps **1** - **14** for each supply tray.

Upon completion of film loading, the film count value displayed in the film information column will change from "0" to "126".

Procedure to be followed in the event that the [Film Setting] button does not extinguish after loading film

- Forgetting to cut off the film package edge before inserting the film into the supply tray and locking the supply tray will result in the [Film Setting] button being displayed again.
  (The film count value will be displayed as "0".)
  Touch the [Film Setting] button again, pull out the supply tray and cut off the edge of the film package.

- The [Film Setting] button will also be displayed if the package has not been properly wound on (forgetting to insert the rear (far) edge of the package between the hold down plate and the winding shaft), or if the first sheet of film has not been successfully picked up. In such cases, the film should be reloaded.
  In cases where the rear (far) edge of the package has not been properly inserted, the part of the film package that has been cut open should be closed with tape to prevent film fogging before opening the shutter to properly insert the package between the hold down plate and the winding shaft.

4.2 Calibrating Internal Densitometer

After completion of DRYPRO 793 installation and settings, the print image density must be calibrated. Firstly, the internal densitometer should, if necessary, be calibrated.

4.2.1 Conditions required for Calibration

The internal densitometer should be calibrated if either of the following conditions exists at the facility where DRYPRO 793 is installed.

Condition 1 : Request from the user for calibration of the internal densitometer based on the standard of the facility densitometer.

Condition 2 : In cases where a density linearity check produces results outside the prescribed range of density.

4.2.2 Density Check Procedure

The items detailed below should be used as reference when carrying out calibration using the facility densitometer. (This also applies to cases where there is no densitometer at the facility.)

The DRYPRO 793 internal densitometer is calibrated before shipment and may, therefore, be used without further adjustments after installation. In cases where the internal densitometer is not to be calibrated using the facility densitometer, only a density linearity check is necessary. Installation engineers must carry a portable densitometer (X-Rite331) for the purposes of determining density. Density values produced by other densitometers cannot be guaranteed.

<Essential Steps>

1. Before proceeding with density measurement, calibration must first be carried out using the X-Rite step tablet in accordance with the X-Rite user's manual.
2. Carry out density value measurement.
   The values shown below should be added to measured density values at each step. Density is the total of the measured value plus the added value.

Range of Measurement	0.00~0.50	0.51~1.00	1.01~1.50	1.51~2.00	2.01~2.50	2.51~3.00	3.01~3.50	3.51 or higher
Added Value	0	0	0	0	0	0	0	0

3. In the event that linearity measured in step-2 falls outside the prescribed range, density calibration should be carried out using the "X-Rite331".
   The values shown below should be added to measured density values at each step and the resulting values input to the operation unit.

Range of Measurement	0.00~0.50	0.51~1.00	1.01~1.50	1.51~2.00	2.01~2.50	2.51~3.00	3.01~3.50	3.51 or higher
Added Value	0	0	0	0	0	0	0	0

4.2.3 Conditions for Implementation

The film types for which internal densitometer calibration is carried out are described blow.

The following information should be used as reference only in cases where the internal densitometer is calibrated at the facility where DRYPRO 793 is installed.

In facilities where multiple film types are used, one internal densitometer calibration for one specific film type will be valid for all film types.
The film type combinations for densitometer calibration are shown below.

Combination Number	Film Type Combination			Film Type Calibrated
	M	B	C	
1	*	*	*	M
2	*	*		M
3	*		*	M
4	*			M
5		*	*	B
6		*		B
7			*	C

- In the above chart, "M" represents mammography-film, "B" blue film and C clear film. Whether or not M is PCM oriented is irrelevant.
- The "*" symbol indicates that the corresponding film is used at the facility.
- Film types corresponding to the combination numbers should be calibrated.
  In cases where the same film is used in 2 trays, the supply tray in which the larger film size is loaded should be selected for calibration.

If the film configuration is changed after installation, check whether or not the changes affect the combination numbers shown above.
If there are changes in the combination numbers, internal densitometer calibration should be re-executed according to the chart above.
The densitometer used should meet the requirements set out in "4.2.1 Conditions Required for Calibration" and "4.2.2 Density Check Procedure" on the previous page.

Example 1 Where there are changes in the film type calibrated:
The existing configuration in which blue film only is used is changed to allow usage of mammography and blue film.
"Combination No. 6" → "Combination No. 2" → Recalibration using mammography film

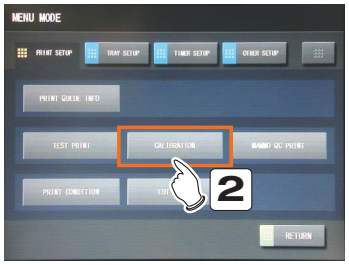
Example 2 Where there are changes in the film type calibrated:
The existing configuration in which mammography film only is used is changed to allow usage of mammography and blue film.
"Combination No. 4" → "Combination No. 2" → Recalibration unnecessary

4.2.4 Procedure for Calibration of Internal Densitometer

The procedure for calibration of the internal densitometer is described below.

1 Print out one calibration sheet.

1)Invoke the menu mode by touching the menu key.

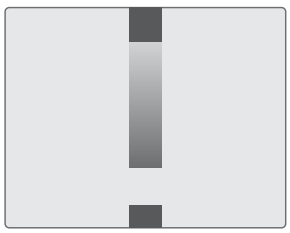


2)Touch the [CALIBRATION] button on the print setting menu screen.
- The tray selection screen will be displayed.

3)Select the tray in which the film type to be calibrated is loaded.

4)After touching the [Print] button, touch [Yes] on the confirmation screen to print the calibration sheet.

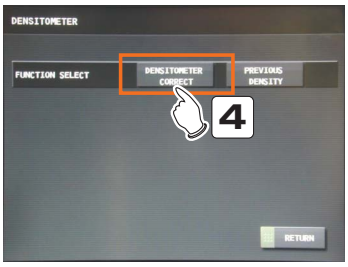
- The calibration sheet print job will be registered and display returned to the maintenance mode (print setting) screen.



2 Print out one internal densitometer calibration sheet.

1)Invoke the menu mode by touching the menu key.
2)log-in to the service maintenance mode using service privilege.

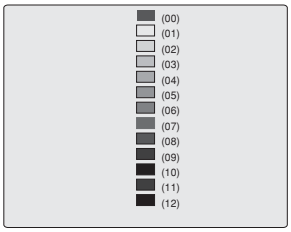
3)Touch the [CORRECTION] button under the [SERVICE 2] item.
- **The densitometer calibration/previous density value selection screen will be displayed.**



4)Touch the [DENSITOMETER CORRECT] button.
- **The tray selection/print screen will be displayed.**

5)Select the supply tray used for calibration in step-1 and touch the [PRINT] button.

- **A densitometer calibration sheet will be printed.**

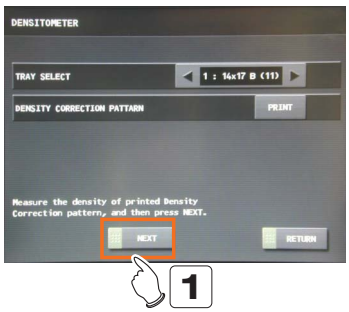


- **Proceed to step-3 without changing the screen.**

3 Measure the densities shown in frames (01) - (12) on the printed densitometer calibration sheet.

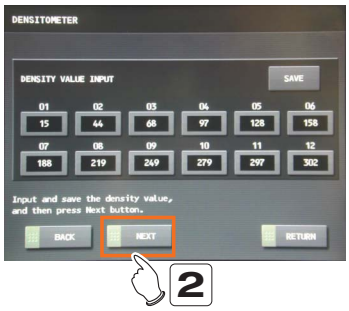
- **Record the densities measured either next to the frames on the sheet or on a separate sheet of paper.**

4 Input the measured density values.

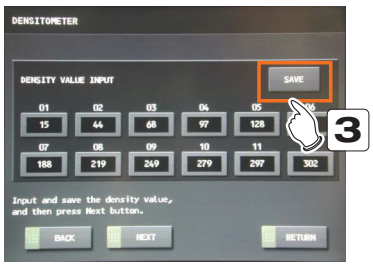


1)Touch the [NEXT] button on the tray selection/print screen.

- The density value input screen will be displayed.

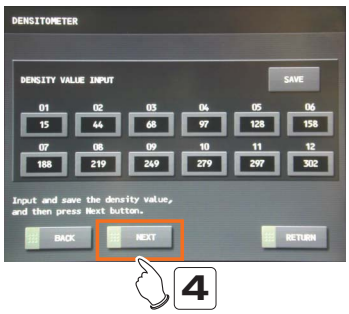


2)Input the density values measured in step-3.



3)Touch the [SAVE] button after completion of input.

> Be sure to touch the [Save] button after inputting values.
> Failure to save the values will result in printing of a calibration pattern in which input values are not reflected.

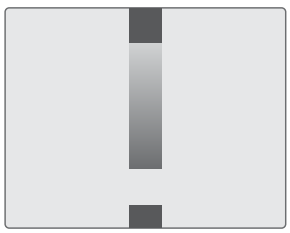


4)Touch the [NEXT] button.

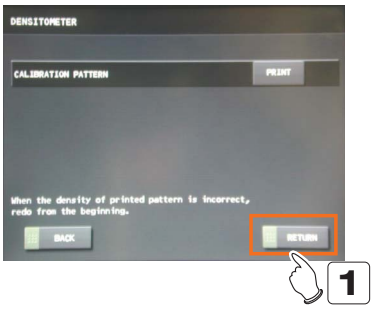
- The calibration pattern screen will be displayed.

5)Touch the [PRINT] button.

- A calibration sheet will be printed.



5 Check the results of calibration.



1)Touch the [RETURN] button after printing the calibration sheet.

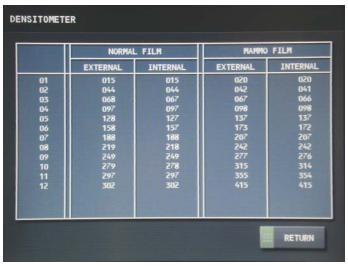
- Display will return to the service maintenance mode screen.

2)Touch the [CORRECTION] button under the [SERVICE 2] item again.

- The densitometer calibration/previous density value selection screen will be displayed.

3)Touch the [PREVIOUS DENSITY] button.

- The densitometer calibration result screen will be displayed.



4)Compare internal measured values at steps 01 through 12 with externally measured values. If normal film was used for calibration, compare values in the "Normal" column: if mammography film was used, values in the "Mammography" column should be compared.

- If results satisfy the following three conditions, density calibration results may be judged to be normal.

(A)The difference between all internal and external measured values is within +/-0.03.

(B)The internal density value at the first step is:

For blue or mammography film : 0.23 or less.
For clear film : 0.13 or less.

(C)The internal density value at the twelfth step is:

For blue or mammography film : 3.00 or more.
For clear film : 3.80 or more.

- If the results of densitometer calibration are judged to be abnormal, steps 2 through 5 should be repeated.

The data in the mammography column must not be used when normal film is used for calibration. Likewise, data in the normal column must not be used when calibration is carried out using mammography film.

6 Touch the [Return] button.

- Display will return to the service maintenance mode screen.

4.3 Test Printing

After completion of calibration of the DRYPRO 793 internal densitometer, a test printing should be carried out to check image quality.

For installation purposes, two flat patterns and one SMPTE pattern should be printed out to check image quality.

- **Flat pattern (Density: 1.00)**
- **Flat pattern: (Density: 1.50)**
- **SMPTE pattern**

This test print should be implemented for each tray.

4.3.1 Printing Flat Patterns

To check for scratches, line and density inconsistency, two flat patterns should be printed out for each tray.

1 Check to ensure that film is loaded in each tray.

- **For details of he procedure for loading film, refer to the operation manual.**

2 Print out two flat patterns from supply tray 1.

1)Touch the menu to invoke the menu mode.

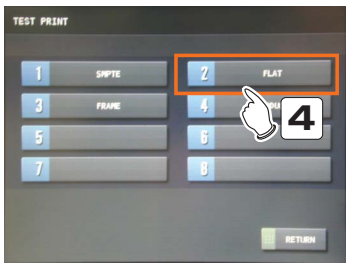
2)log-in to the service maintenance mode using service privilege.

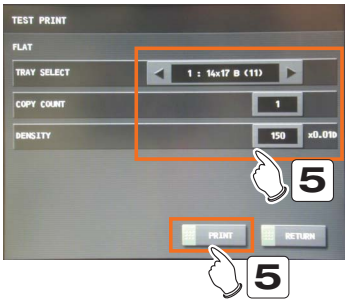
3)Touch the [TEST PRINT] button under the [PRINT] item.

- **The test print selection screen will be displayed.**

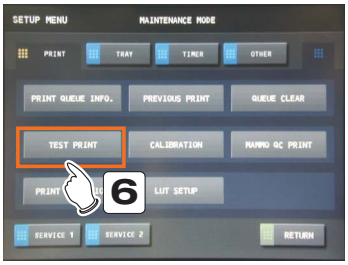
4)Touch the [FLAT] button.

- **The condition selection screen will be displayed.**

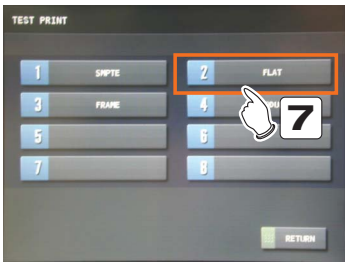




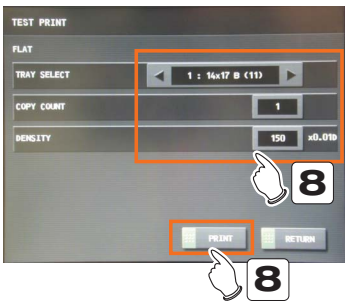
5)Select supply tray 1, a copy count of 1 and a density of 1.00 and touch the [Print] button.
- The flat pattern will be registered in the queue.
- The display will return to the service maintenance mode screen.



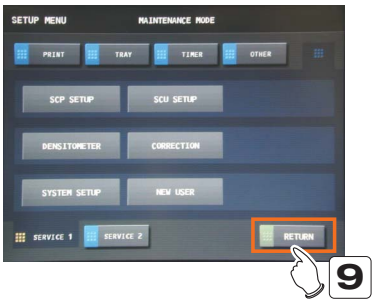
6)Touch the [TEST PRINT] button under the [PRINT] item again.
- The test print selection screen will be displayed.



7)Touch the [FLAT] button.
- The condition selection screen will be displayed.



8)Select supply tray 1, a copy count of 1 and a density of 1.50 and touch the [Print] button.
- The flat pattern will be registered in the queue.
- The display will return to the service maintenance mode screen.



9)Touch the [RETURN] button.
- Display will return to the normal screen.
- Two flat pattern films will be printed.

3 In the same way print out two flat patterns from supply tray 2.

4 Likewise, print out two flat patterns from supply tray 3, if installed.

4.3.2 Printing SMPTE Pattern

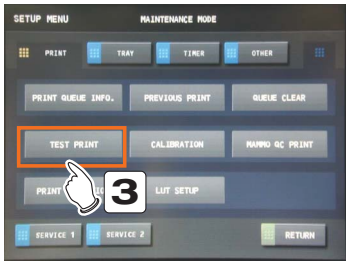
To check printed film density, one SMPTE pattern should be printed out from each tray.

1 Print out one SMPTE pattern from supply tray 1.

1)Touch the menu to invoke the menu mode.

2)log-into the service maintenance mode using service privilege.

3)Touch the [TEST PRINT] button under the [PRINT] item.
- **The test print selection screen will be displayed.**



4)Touch the [SMPTE] button.
- **The input device selection screen will be displayed.**

5)Select [NO SELECT] as the input device.

- **Selection of [NO SELECT] here will result in the automatic settings shown below in accordance with the film type selected in step-6.**
- **LUT setting : Linear**
- **Blue film: : Maximum density: "300"**
  Minimum density: "20"
- **Clear film: : Maximum density: "300"**
  Minimum density: "10"
- **Mammography film: : Maximum density: "400"**
  Minimum density: "20"

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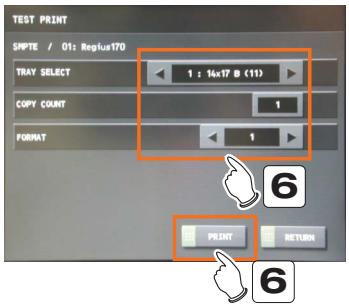
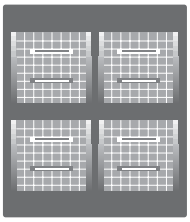


6)Select supply tray 1, a copy count of 1 and a frame count matching the supply tray 1 film size and touch [PRINT].

For film sizes 14X17, 14X14 : 4 frames
For film sizes 11X14, 10X12, 8X10 : 2 frames

- **The SMPTE pattern will be registered in the queue.**

7)Touch the [RETURN] button.
- **Display will return to the normal screen.**
- **The SMPTE pattern film will be printed.**



3 In the same way print one SMPTE pattern from supply tray 2.

4 Likewise, print out one SMPTE pattern from supply tray 3, if installed.

In cases where print conditions (LUT setting, maximum/minimum density) for the SMPTE pattern print out were changed, remember to restore the original settings after checking image quality.

4.3.3 Flat Pattern Justification

Check film for scratches, line or density inconsistencies using a light table.

In cases where printed flat patterns show abnormalities, appropriate measures should be taken as detailed in the chapter dealing with resolving problems in the service manual.

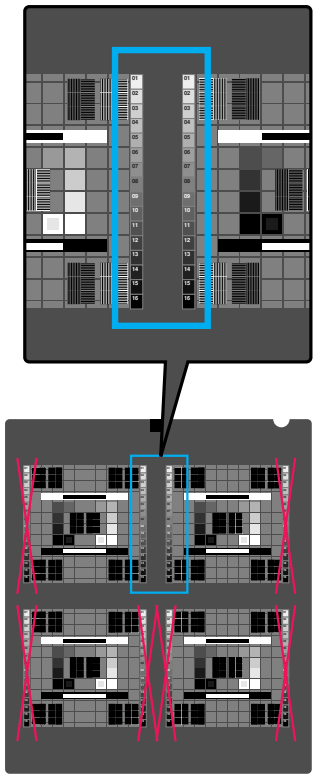
4.3.4 SMPTE Pattern Density Justification

The SMPTE pattern density is measured to determine whether or not the DRYPRO 793 output density is normal.
There are two methods of judging density dependent upon film size.

The densitometer used for calibration of the internal densitometer must be used for density measurement.

(1) For Film Sizes 14X17, 14X14, 11X14

SMPTE patterns printed on 14X17, 14X14 and 11X14 sizes contain four patterns on one sheet.



1 Check to ensure that the densitometer to be used is adjusted to zero.

2 Out of the 16 gray scale levels on the SMPTE pattern, use the densitometer to measure the density of either gray scale at the top of the inside of the film (where there are density patches and notches).

- **Measure 16 locations (0 through 16) within the same gray scale.**

3 Check the differences in density between the measured and standard values.

- **The print is judged to be normal if values measured at each point fall within the criteria for the maximum and minimum values.**
  For standard, maximum and minimum values, refer to Chart-A.

p.152 Chart A

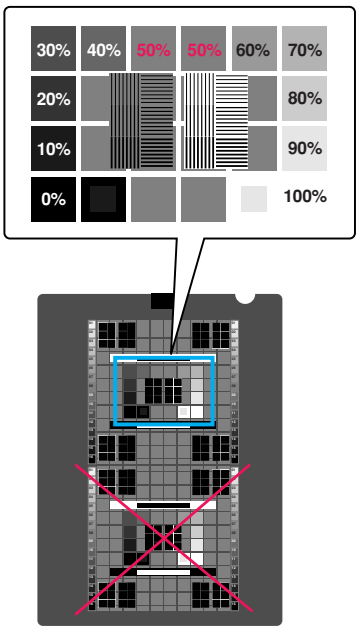
With the exception of values shown with asterisks (*), values within the standard +/-0.05D are judged to be normal.

4 In cases where there are points that fall outside the prescribed range, the following checks should be carried out.

1.Was calibration carried out before test printing?
→If any of the supply trays have not been calibrated, calibration should be executed and test printing/density judgement carried out again.

2.Was the internal densitometer calibration result normal?
→If not normal, densitometer calibration should be re-executed and test printing/density judgement carried out again.

(2) For Film Sizes 10X12, 8X10



1 Check to ensure that the densitometer to be used is adjusted to zero.

2 Out of the 11 gray scale levels (12 points)on the SMPTE pattern, use the densitometer to measure the density value at one location at the top of the film (where there are density patches and notches).

- **Measure 12 points within the same gray scale between 0% and 100%. Caution must be exercised since there are two points corresponding to 50%.**

3 Check the differences in density between the measured and standard values.

- **The print is judged to be normal if values measured at each point fall within the criteria for the maximum and minimum values.**
  For standard, maximum and minimum values, refer to Chart-B.

  With the exception of values shown with asterisks (*), values within the standard +/-0.05D are judged to be normal.

4 In cases where there are points that fall outside the prescribed range, the following checks should be carried out.

1.Was calibration carried out before test printing?

→If any of the supply trays have not been calibrated, calibration should be executed and test printing/density judgement carried out again.

2.Was the internal densitometer calibration result normal?

→If not normal, densitometer calibration should be re-executed and test printing/density judgement carried out again.

SMPTE patterns printed on 10X12, and 8X10 sizes contain two patterns on one sheet.

Do not measure the 16 step gray scale on 10X12 and 8X12 sizes.

p.153 Chart B

In cases where the printed SMPTE pattern shows abnormalities, appropriate measures should be taken as detailed in the chapter dealing with resolving problems in the service manual.

Installation engineers must take film printed during the process of installation and adjustments with them after completion of work.

List of Standard Density Values in the SMPTE Pattern (Shows correspondence between maximum and minimum density settings)

Chart-A (16 step gray scale)

Film Setting	Max. Density	Min. Density
Clear	300	10

Point	Min. Value	Standard Value	Max. Value
(*) 1	none	**10**	13
2	24	**29**	34
3	44	**49**	54
4	63	**68**	73
5	82	**87**	92
6	102	**107**	112
7	121	**126**	131
8	140	**145**	150
9	160	**165**	170
10	179	**184**	189
11	198	**203**	208
12	218	**223**	228
13	237	**242**	247
14	256	**261**	266
15	276	**281**	286
16	295	**300**	305

Film Setting	Max. Density	Min. Density
Blue	300	20

Point	Min. Value	Standard Value	Max. Value
(*) 1	15	**20**	25
2	34	**39**	44
3	52	**57**	62
4	71	**76**	81
5	90	**95**	100
6	108	**113**	118
7	127	**132**	137
8	146	**151**	156
9	164	**169**	174
10	183	**188**	193
11	202	**207**	212
12	220	**225**	230
13	239	**244**	249
14	258	**263**	268
15	276	**281**	286
16	295	**300**	305

Film Setting	Max. Density	Min. Density
Mammography	400	20

Point	Min. Value	Standard Value	Max. Value
1	15	**20**	25
2	40	**45**	50
3	66	**71**	76
4	91	**96**	101
5	116	**121**	126
6	142	**147**	152
7	167	**172**	177
8	192	**197**	202
9	218	**223**	228
10	243	**248**	253
11	268	**273**	278
12	294	**299**	304
13	319	**324**	329
14	344	**349**	354
15	370	**375**	380
(*)16	395	**400**	none

With the exception of values shown with asterisks (*), SMPTE pattern density values within the standard +/-0.05D are judged to be normal.

Chart-B (11 step gray scale)

Film Setting	Max. Density	Min. Density
Clear	300	10

Point	Min. Value	Standard Value	Max. Value
(*)100%	none	**10**	13
90%	34	**39**	44
80%	63	**68**	73
70%	92	**97**	102
60%	121	**126**	131
50%	150	**155**	160
40%	179	**184**	189
30%	208	**213**	218
20%	237	**242**	247
10%	266	**271**	276
0%	295	**300**	305

Film Setting	Max. Density	Min. Density
Blue	300	20

Point	Min. Value	Standard Value	Max. Value
100%	15	**20**	25
90%	43	**48**	53
80%	71	**76**	81
70%	99	**104**	109
60%	127	**132**	137
50%	155	**160**	165
40%	183	**188**	193
30%	211	**216**	221
20%	239	**244**	249
10%	267	**272**	277
0%	295	**300**	305

Film Setting	Max. Density	Min. Density
Mammography	400	20

Point	Min. Value	Standard Value	Max. Value
100%	15	**20**	25
90%	53	**58**	63
80%	91	**96**	101
70%	129	**134**	139
60%	167	**172**	177
50%	205	**210**	215
40%	243	**248**	253
30%	281	**286**	291
20%	319	**324**	329
10%	357	**362**	367
(*) 0%	395	**400**	none

With the exception of values shown with asterisks (*), SMPTE pattern density values within the standard +/-0.05D are judged to be normal.

4.4 Adjusting Image Data Write Start Position

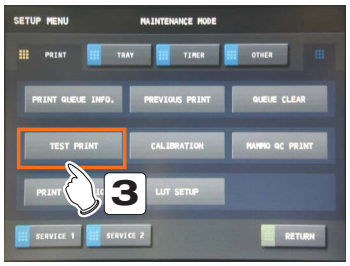
After completion of test printing, the image data write start position should be checked and adjusted.
The image data write start position can be checked by printing a frame pattern and measuring the difference between the unexposed margins at both edges of the film. The film image write start position must be adjusted separately for each film size loaded in the supply trays.
In cases where the image data write start position is unbalanced, adjustments may be made using Product Setup in the service maintenance mode.

4.4.1 Printing Frame Patterns

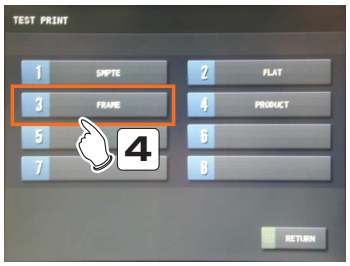
Firstly, one frame pattern should be printed out for each size for the purpose of film image data write position adjustment.

1 Print out one frame pattern.

1)Invoke the menu mode by touching the menu key.
2)log-into the service maintenance mode using service privilege.



3)Touch the [TEST PRINT] button under the [PRINT] item.
- The test print selection screen will be displayed.



4)Touch the [FRAME] button.
- The test print (Frame) screen will be displayed.

5) Select supply tray 1, a copy count of 1 and a density of 1.50 and touch the [PRINT] button.

- The frame pattern will be registered in the queue.

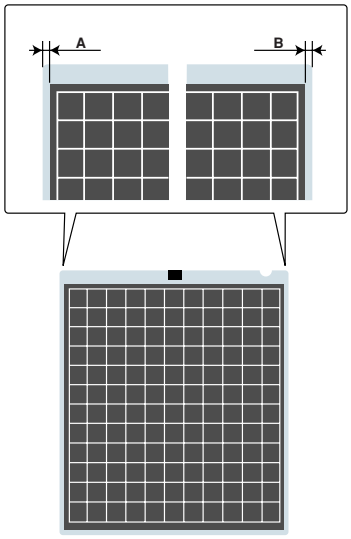
6) Touch the [RETURN] button.
- Display will return to the maintenance mode screen.

7) Touch the [RETURN] button.
- The print pattern will be printed.
- Display will return to the normal screen.

8) Repeat steps 1) through 7) to print out frame patterns for each of the film sizes loaded in the supply trays.

4.4.2 Making Adjustments of Write Start Position in the Main Scan Direction (Horizontal)

The procedure for making adjustments in the main scan direction is described below.



1 Turn the pattern so that the word "FRAME" can be correctly seen and use a ruler to measure the length of the unexposed margins at the left and right edges of the frame pattern.

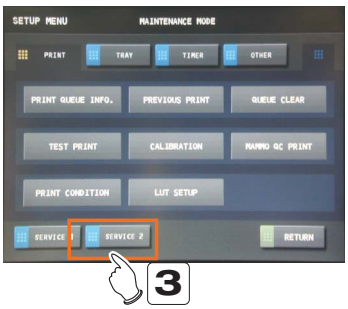
- **No adjustments to the write start writing position are necessary if the difference between the lengths of the unexposed margins (A-B at left) is 0.5mm or less. Proceed to section 4.4.3 Making Adjustments of write start position in the Sub-scan Direction (Vertical).**

- **If the difference between the lengths of the unexposed margins is greater than 0.5mm, adjustments must be made in the main scan direction.**
  Proceed to step-2.

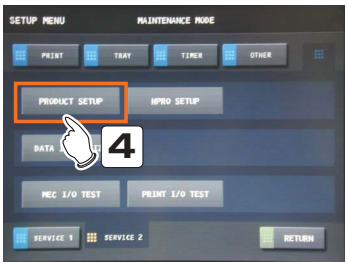
2 Display Product Setup (page 2/6)

1) Invoke the menu mode by touching the menu key.

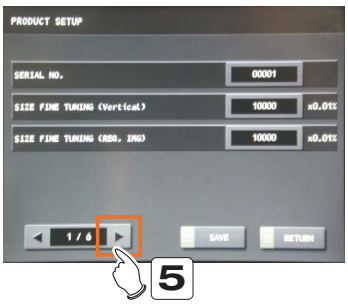
2) log-into the service maintenance mode using service privilege.



3) Touch the [SERVICE 2] button.
- **The service settings screen will be displayed.**



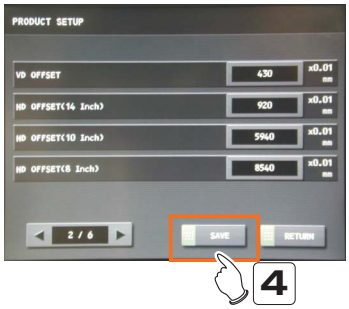
4) Touch the [PRODUCT SETUP] button.
- **The product setting screen (1/6) will be displayed.**



5) Touch the [>] button at the bottom left.
- **The next product setting screen (2/6) will be displayed.**

3 If the unexposed left margin measured in step-1 is longer than the right, decrease the value shown on the [HD Offset] button for the corresponding film size by the difference.
If the unexposed left margin measured in step-1 is shorter than the right, increase the value shown on the [HD Offset] button for the corresponding film size by the difference.

- **The image data writing position will be adjusted accordingly.**



4 Touch the [SAVE] button.

- **Display will return to the service maintenance mode menu screen.**

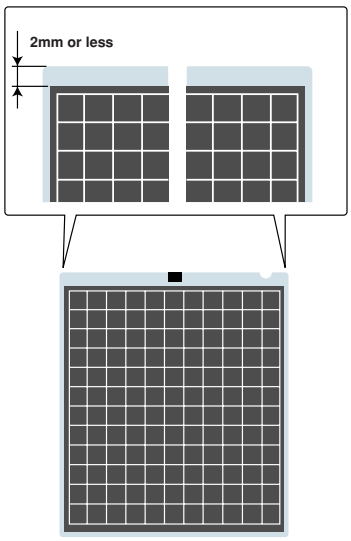
5 Repeat print out of the frame pattern and measurement of the unexposed margins and check that the image data writing position has been correctly adjusted.
If adjustments are incorrect, repeat steps 2 through 4 to carry out further adjustments.

6 メカコンボックスカバーに貼ってあるラベルのフィルムサイズ欄に、横方向に調整した値を記載します。

号機 (Ser.No)				日付 (Date)		
補正ﾊﾟﾗﾒｰﾀ (Parameter)	左 (Left)	中央 (Center)	左 (Right)	フィルムサイズ	Holizontal position	Vertical position
ST13A						
ST13B				14inch		
ST13C		7		10inch	0000000	
ST13D	7	7	7	8inch		
ST13E	7	7	7			
日付 (Date)						
ソフトVer (Software Version)						
メモリー						

4.4.3 Making Adjustments of Write Start Position in the Sub-Scan Direction (Vertical)

The procedure for making adjustments in the sub-scan direction is described below.



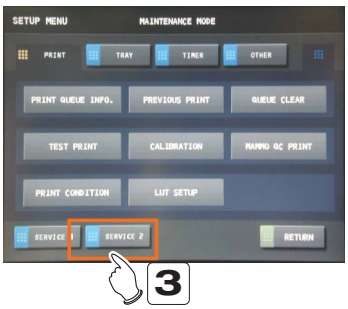
1 Turn the pattern so that the word "FRAME" can be correctly seen and use a ruler to measure the length of the unexposed margin at the top edge of the frame pattern.

- **No adjustments to the write start position are necessary if the length of the unexposed margin is 2mm or less. Proceed to Chapter Five: Printing from and Backup of External Devices.**
- **If the length of the unexposed margin is greater than 2mm, adjustments must be made to the write start position.**

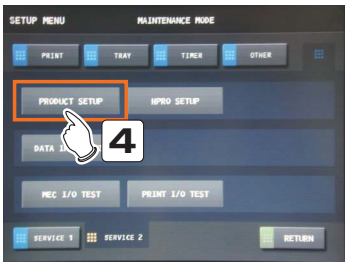
2 Display Product Setup (page 2/6)

1) Invoke the menu mode by touching the menu key.

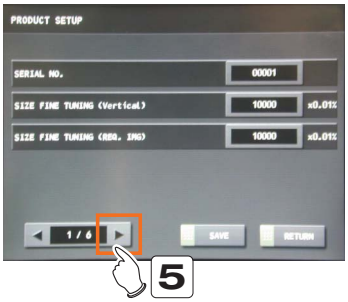
2) log-into the service maintenance mode using service privilege.



3) Touch the [SERVICE 2] button.
- **The service settings screen will be displayed.**



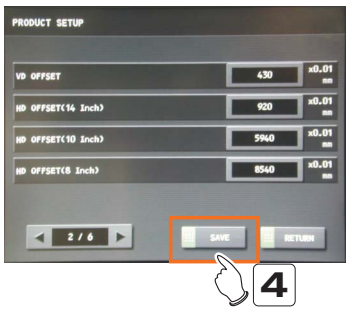
4) Touch the [PRODUCT SETUP] button.
- **The product setting screen (1/6) will be displayed.**



5) Touch the [>] button at the bottom left.
- **The next product setup screen (2/6) will be displayed.**

3 Reduce the value shown on the [VD OFFSET] button by the length measured in step-1 minus 2mm.

- **The write start position will be adjusted accordingly.**



4 Touch the [SAVE] button.

- **Display will return to the service maintenance mode menu screen.**

5 Repeat print out of the frame pattern and measurement of the unexposed margin and check that the image data writing position has been correctly adjusted.
If adjustments are incorrect, repeat steps 2 through 4 to carry out further adjustments.

6 メカコンボックスカバーに貼ってあるラベルのフィルムサイズ欄に、縦方向に調整した値を記載します。

号機 (Ser.No)				日付 (Date)		
補正ﾊﾟﾗﾒｰﾀ (Parameter)	左 (Left)	中央 (Center)	左 (Right)	フィルムサイズ	Holizontal position	Vertical position
ST13A						
ST13B				14inch		
ST13C		7		10inch		0000000
ST13D	7	7	7	8inch		
ST13E	7	7	7			
日付 (Date)						
ソフトVer (Software Version)						
メモリー						

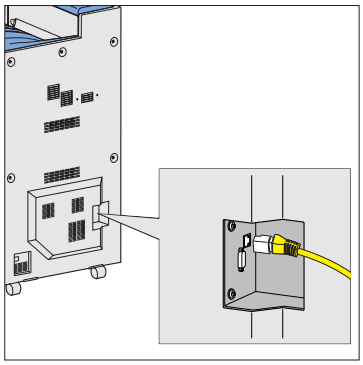
Chap. 5

Printing from and Backup of Setup Data

Finally, a print job should b sent from an external device to DRYPRO 793 and a check carried out to ensure that printing is successfully executed.
After carrying out the above check, the DRYPRO 793 program/setting files should be backed up.

5.1 Printing from External Devices

The procedure for carrying out a check to ensure that print jobs sent from external devices can be successfully printed is described below.

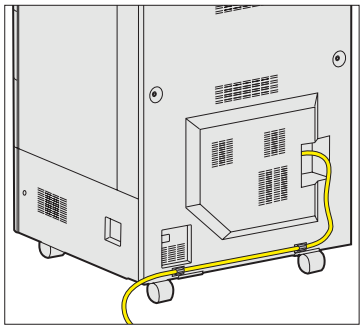


1 Connect one end of the Ethernet cable to the Ethernet port (RJ45) at the back of DRYPRO 793.

- **Connect the other end of the Ethernet cable to the facility hub.**
- **A hub with auto-negotiation capabilities as a 110BASE-TX hub is recommended. The facility network administrator should be consulted for details.**
- **If using 100BASE-T, CAT5 or CAT6 LAN cable should be used.**

2 Send the queue from the external device and check printing.

- **If any problem arises, repeat the necessary DRYPRO 793 setup procedures in accordance with the section dealing with troubleshooting in the service manual.**
- **If printing of the job sent from the external device is successful, proceed to step-3.**



3 Secure the Ethernet cable to the back of DRYPRO 793 with two clamp accessories giving due consideration to the place where the device is installed.

5.2 Backup

The procedure for backing up DRYPRO 793 program/setting files is described below.

The following two types of backup should be carried out during installation.

- Backup of DRYPRO 793 CF memory information on the hard disk.
- Backup of DRYPRO 793 installation settings on the maintenance PC using the Web maintenance tool.

5.2.1 CF Memory Data Backup (CF -> HDD)

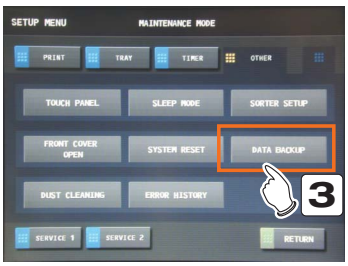
The procedure for backing up DRYPRO 793 program/setting files for use in the event of damage to the compact flash memory is described below.
All program files including device-specific data is normally stored in the compact flash memory. This data should all be backed up on the hard disk.

1 Switch to the service maintenance mode.

p.86 **Switching to the Service Maintenance Mode**

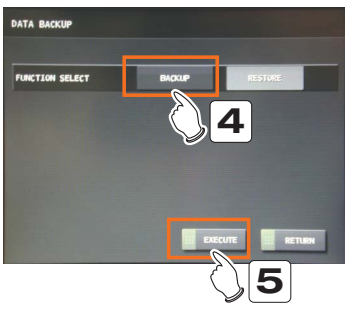
2 Touch the [OTHER button.

- **The other setting items will be displayed.**



3 Touch the [DATA BACKUP] button.

- **The data backup screen will be displayed.**



4 Touch the [BACKUP] button.

5 Touch the [EXECUTE] button.

- **A message indicating the data backup is in process will be displayed followed by return to the menu screen.**

Backup data can be restored to the CF using the "RESTORE" function.

5.2.2 Installation Information Backup (DRYPRO 793 -> Maintenance PC)

The procedure for backing up settings for each device using the Web maintenance tool is described below.

System Requirements

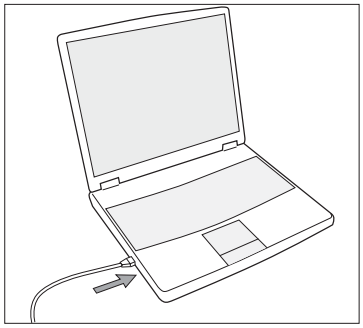
In order to use the Web maintenance tool, the PC used must meet the following requirements.

Windows PC capable of using Internet Explorer 5.x or 6.x.

PC equipped with Ethernet (10/100Base)

Environment that allows use of Java Script on the Web browser.

If unsure, download "j2re_1_3_1_win_i.exe" from the Sun Microsoft homepage.



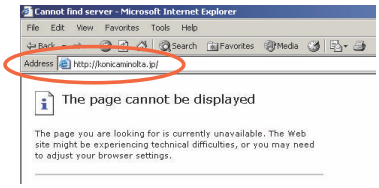
1 Plug the Ethernet cable into the PC Ethernet port.

Cannot find server - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://konicaminolta.jp/
The page cannot be displayed
The page you are looking for is currently unavailable. The Web site might be experiencing technical difficulties, or you may need to adjust your browser settings.

2 Start up the PC.

3 Start up the Internet Explorer (version 5.5 or higher).

- **The message "page cannot be displayed" will appear.**

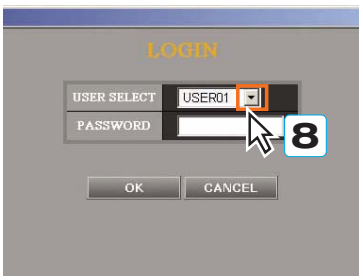

Cannot find server - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://konicaminolta.jp/
The page cannot be displayed
The page you are looking for is currently unavailable. The Web site might be experiencing technical difficulties, or you may need to adjust your browser settings.

4 Input the DRYPRO IP address after http:// in the "Address" textbox.

- **Input should be in the following format. http://<IP Address>/**
- **The Web maintenance tool log-in screen will be displayed.**

6 Click [LOGIN] at the top left of the screen.

- **The log-in screen will be displayed.**



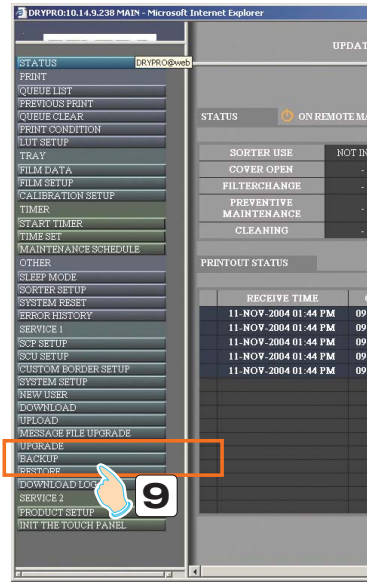
7 Click [SERVICE] in the "User ID" box and input the service privilege password in the "Password" box.

- **The input password will be displayed as a series of asterisks (*) or dots (•) in place of the actual characters input.**
  (The password display format depends on the PC used.)

- **The password is fixed as "5678" and cannot be changed.**

8 Click the [OK] button.

- **The top page of the service mode Web maintenance tool will be displayed.**

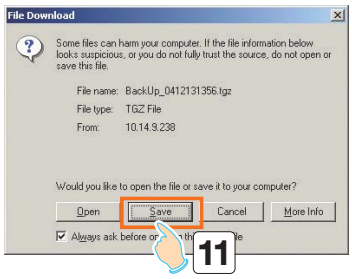


9 Click the [Backup] bottom of the "Service Setup" column in the menu frame at the left side of the screen..

- **"Backup" will be displayed in the operation/setting frame.**

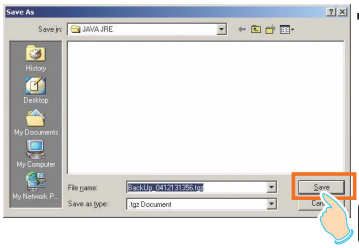
10 Click the [OK] button.

- **The file download icon will be displayed.**


File Download
Some files can harm your computer. If the file information below looks suspicious, or you do not fully trust the source, do not open or save this file.
File name: BackUp_0412131356.tgz
File type: TGZ File
From: 10.14.9.238
Would you like to open the file or save it to your computer?
Open
Save
Cancel
More Info
Always ask before
11

11 Click the [Save] button.

- **Backup will commence and progress indicated by display of messages.**
- **To return to the top page without carrying out backup, click the [Cancel] button.**
- **A file save dialogue will be displayed upon completion of backup.**



12 Specify the folder where backup is to be saved and click the [Save (S)] button.

- **A name "Backup_xxxxxxxxxx.tgz" ("xxxxxxxxxx" shows the time and date in a 10-digit format.) will be automatically allocated the file.**
- **The top page is displayed after data has been saved.**

Chap. 6

Web Maintenance Mode

While procedures for making settings using DRYPRO 793 were described in "Chapter 3 Setup", settings may also be made from the maintenance PC. This chapter deals with procedures for making settings from the Web maintenance mode.

6.1 Outline of Web Maintenance Mode

DRYPRO 793 is furnished with a Web maintenance mode, which allows maintenance on the device to be carried out externally by connection to the Internet.
Using the Web maintenance mode allows the user to reference and make changes to settings from remote locations.
The Web maintenance mode may be operated from the Internet Explorer using PC that meets the requirements listed below.

CPU	Pentium Ⅲ 500MHz minimum (800MHz minimum recommended)
Memory	128MB minimum (256MB minimum recommended)
Display	XGA (1024x768 bits 256 colors) or higher
OS	Windows 2000/XP
Browser	Internet Explorer 5.5 or higher With "Cookie" capabilities Environment that allows use of Java script. (If unsure, download and install "j2re_1_3_1_win_I_exe" from the Sun Microsoft homepage Select "Proxy Server not used" in the Internet Explorer settings.

PC Settings for the Web Maintenance Mode

1. Make the following Internet settings on the Internet Explorer.
   - Enter checks under [Tools] - [Internet Options] - [Overall] - [Setup] - [Check for each page display].
   - Set [Tools] - [Internet Options] - [Security] - [Internet] - [Standard Level].
   - [Tools] - [Internet Options] - [Security] - [Intranet] - [Standard Level].
   - Invoke [Tools] - [Internet Options] - [Security] - [Preview Site] - [Site] - [Add following site to zone], enter IP address of DRYPRO 793 and click the [OK] button.

2. Install Java Script version "1.3.1_09."
   In cases where version 1.4 is installed, delete and install version "1.3.1_09."
   Use of version 1.4 may render it impossible to properly use the Web maintenance mode.
   Version Check
   The version installed may be checked as follows: [Control Panel] - [Adding and Deleting Programs] - "Java 2 Runtime Environment xxx" ("xxx" represents the version number.)
   Deleting Version 1.4
   [Control Panel] – [Adding and Deleting Programs] - "Java 2 Runtime Environment xxx - click the [Delete] button.

- Although multiple web browsers may be activated on one external PC for connection to multiple DRYPRO 793 units, multiple web browsers activated on one external PC cannot be connected to the same DRYPRO 793 unit.
- A maximum of 16 web maintenance modes may be used simultaneously on the network.
- Like the maintenance mode from the DRYPRO 793, printing and receipt of print data from diagnostic devices is not possible while the Web maintenance mode is active.
  Print jobs remaining will be output after termination of the Web maintenance mode.
- Level 3 and service privilege cannot be used simultaneously on the operation panel and in the Web maintenance mode.

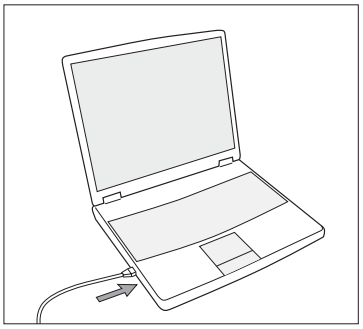
6.2 Starting Up and Terminating Web Maintenance Mode

The procedure for starting up and closing menu and maintenance modes in the Web maintenance mode is described below.

6.2.1 Starting up the Web Maintenance Mode (Service Maintenance Mode)

The procedure for starting up the Web Maintenance Mode (Service Maintenance Mode) is described below.
A PC for use of the Web maintenance mode should be made ready.

1 Activate the PC on which the Web maintenance mode is to be used.



2 Connect the Ethernet cable to the PC.

3 Start up DRYPRO 793.

The Web maintenance mode may be started up even while DRYPRO 793 is warming up.
Note, however, that the Web maintenance mode cannot be used while DRYPRO 793 is initializing.

4 Connect the other end of the Ethernet cable connected in step-2 to the hub to which the DRYPRO 793 Ethernet cable is connected.

Connection between DRYPRO 793 and the PC may also be effected without using the hub by use of a direct cross-cable connection.

5 Open the Internet Explorer on the Web maintenance mode PC.

- **A message stating that the page cannot be displayed will appear.**

Cannot find server - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address http://konicaminolta.jp/
The page cannot be displayed
The page you are looking for is currently unavailable. The Web site might be experiencing technical difficulties, or you may need to adjust your browser settings.

6 Input the DRYPRO IP address after http:// in the [Address] textbox.

- **The Web maintenance tool menu mode screen will be displayed.**

7 Click the [log-in] button at the top right of the screen.

- **The log-in screen will be displayed.**

8 Click the user ID pull-down menu.

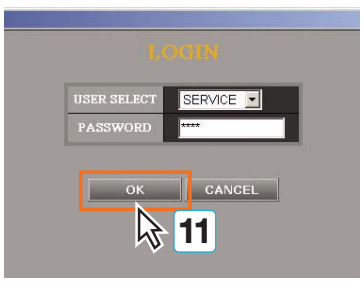
-A list of user IDs will be displayed.

9 Click "SERVICE."

- **The pull-down menu will be closed and "SERVICE" displayed in the user ID window.**

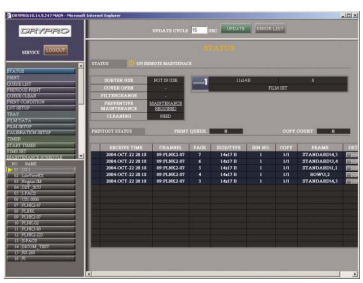
10 Input the service password from the PC keyboard.

- **The input password will be shown as a series of asterisks (*) or dots (•) equivalent in number to the characters input.**
  (The display format depends on the PC used.)



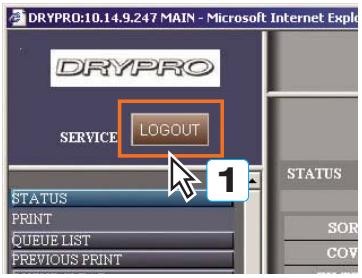
11 Click the [OK] button.

- **If the input password is correct, the message "Please Wait" will be displayed followed by the service maintenance mode screen of Web maintenance tool.**



6.2.2 Terminating the Web Maintenance Mode

The procedure for terminating the Web maintenance mode (maintenance mode) is described below.



1 Click the [Log out] button at the top left of the screen.

- aconfirmation screen will be displayed.

2 Click the [OK] button.

- The Web maintenance mode (service maintenance mode) will be terminated display returned to the Web maintenance mode (menu mode).

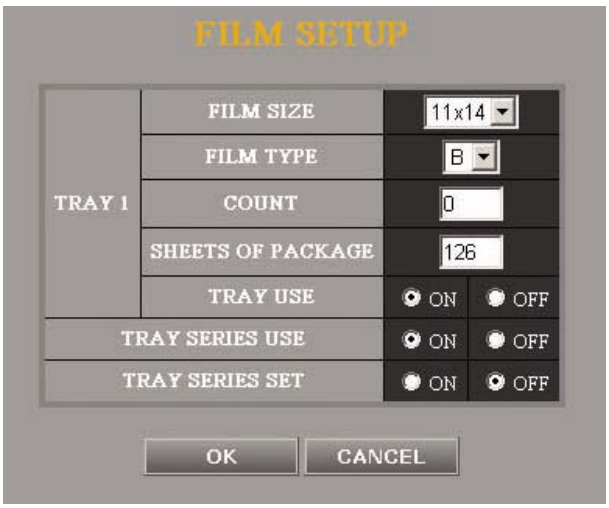
6.3 Web Maintenance Mode Menus

Web maintenance mode menus are described below.

6.3.1 Film Setup <Film Setting>

p.170 FILM SETUP

The procedure for making film size and type settings for film output by DRYPRO 793 is described below.



Item	Default	Descriptions
FILM SIZE	Tray-1 : 14x17 Tray-2 : 14x17 Tray-3 : 8x10	Sets film sizes for film loaded in each of the trays. **"14x17"** : 14inch x17inch film **"14x14"** : 14inch x14inch film **"11x14"** : 11inch x14inch film **"10x12"** : 10inch x12inch film **"8x10"** : 8inch x10inch film
FILM TYPE	Tray-1 : B Tray-2 : B Tray-3 : M	Sets the film type for film loaded in each tray. **"B"** : Blue base film **"C"** : Clear base film **"M"** : Mammography film
COUNT	Tray-1 : 0 Tray-2 : 0 Tray-3 : 0	Sets the film count for film loaded in each tray. Settings may be made within a range of 0 – 126. Since the product is shipped with no film loaded, the setting in the shipping configuration is "0". In the event that film has been loaded prior to this point, the loaded film count will be displayed.
SHEETS OF PACKAGE	Tray-1 : 126 Tray-2 : 126 Tray-3 : 126	Sets the film package count for each tray. The value printed on the film box +1 should be set. (This is to allow for the calibration sheet used when film is loaded.) Settings may be made within a range of 0 – 126.
TRAY USE	Tray-1 : ON Tray-2 : OFF Tray-3 : OFF	Sets the usage status of each tray. **"ON"** : Tray used. **"OFF"** : Tray not used.

Item	Default	Descriptions
TRAY SERIES USE	ON	Sets operation for use of the same film size/type in multiple trays. **"ON"** : Multiple trays operate as one tray. 1つのトレイのフィルムが無くなっても、別のトレイに同一フィルムサイズ／タイプのフィルムが残存している場合、EMPTY状態にはなりません。 **"OFF"** : Multiple trays operate independently. 別トレイに同一フィルムサイズ／タイプのフィルムが残存していても、EMPTY状態になります。
TRAY SERIES SET	OFF	Sets the film set operation mode valid when all trays are empty. **"ON"** : Film set operation is continued. **"OFF"** : Film set operation is not continued. Display is returned to the normal screen.

The following conditions apply to setting changes.

Film size, type, count and package count settings are not possible for trays whose [Tray Use] is set to [Not in Use].
Film size, type, count and package count settings are not possible.

When the [Tray Use] is set to [Not in Use].
Tray 2 and 3 settings are not displayed (setting changes not possible.

When the [Mounted Tray Count] is set to "1".
Tray 3 setting are not displayed (setting changes not possible).

When unprocessed jobs remain in DRYPRO 793.
All setting changes are not possible.

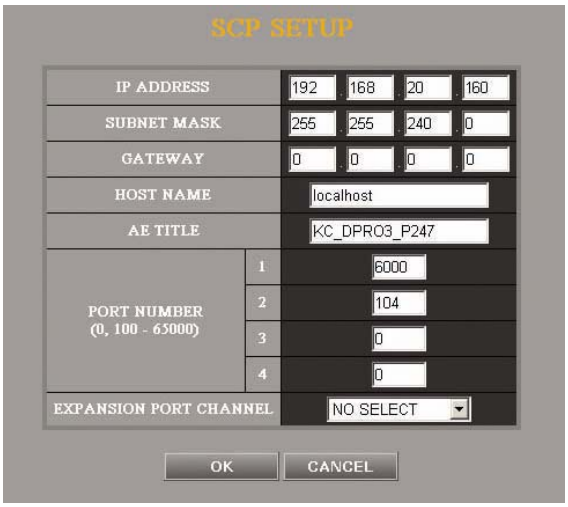
When an optional additional supply tray is mounted, the [Mounted Tray Count] and [Tray Use] settings should be changed.
Changes to settings should not be made until after the additional tray has been mounted in DRYPRO 793.
Making setting changes before the additional tray is mounted will result in error.

To prevent mistakes in setting changes that may occur when making settings from locations where the actual device cannot be visually checked, the system is designed so that the [Mounted Tray Count] cannot be changed from the Web Maintenance Mode.
Changes must be made from service maintenance mode.

6.3.2 SCP Setup <Service1>

p.172 SCP Setup

The procedure for making SCP settings (DICOM information of DRYPRO 793 itself) is described below.



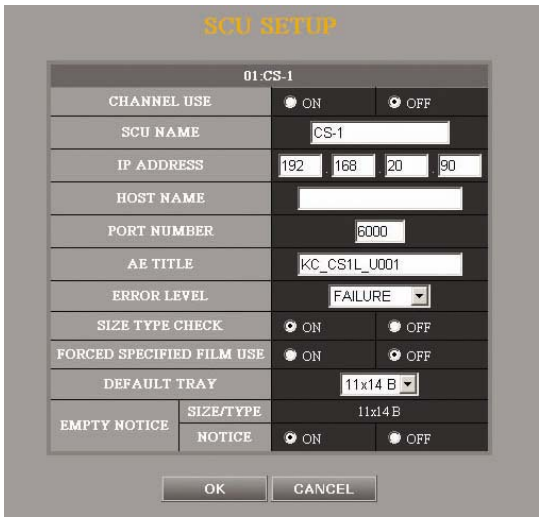
Item	Default	Descriptions
IP ADDRESS	192.168.20.160	Sets the DRYPRO 793 IP address.
SUBNET MASK	255.255.255.0	Sets the network sub-net mask.
GATEWAY	0.0.0.0	Sets the network gateway.
HOST NAME	(Blank)	Sets the DRYPRO 793 host name. A maximum of 16 alphanumerical characters may be specified.
PORT NUMBER	6000 104 0 0	Sets the DRYPRO 793 DICOM receipt port number. It is not necessary to duplicate settings for the same port number. Do not set all values to "0." Settings may be made within a range of 100 – 65000.
AE TITLE	KC_DPRO3_P001	Sets the DRYPRO 793 AE tile. Alphabetical settings are case sensitive.
EXPANSION PORT CHANNEL	NO SELECT	Selects the channel to be used for port expansion in cases where external devices are connected in the expanded port specification. <NO SELECT> : Connection according to the basic specification (Expanded port not used) <CH01> : CH01 is set as the expanded port. ~ <CH16> : CH16 is set as the expanded port.

p.12 Expanded Port Specification

6.3.3 SCU Setup <Service1>

p.173 SCU Setup

The procedure for making SCU settings (DICOM information of diagnostic devices connected to DRYPRO 793) is described below.
The following SCU settings should be made.



The default settings for each of the DICOM SCU items are based on connection of CS-1/CS-2 (CH1), Printlink2 (CH2), CS-3 (CH3) (one of each connected).

未使用の入力装置の「入力装置　使用」は必ず「OFF」に設定してください。

Item	Default	Descriptions
CHANNEL USE	CH01 : ON CH02 : ON CH03 : ON CH04~16 : OFF	Setting to determine whether or not to use channels of the selected diagnostic device."ON" or "OFF" may be selected.
SCU NAME	CH01 : Regius170 CH02 : Printlink2 CH03 : Regius190 CH04~16 : (Blank)	Sets the name of the selected diagnostic device. A maximum of 12 alphanumerical characters may be specified. The device name specified here is used for display.
IP ADDRESS	CH01 : 192.168.20.90 CH02 : 192.168.20.200 CH03 : 192.168.20.90 CH04~16 : 0.0.0.0	Sets the IP address of the diagnostic device. "0.0.0.0" should be specified in cases where N-EVENT REPORT is not used.
HOST NAME	CH01~16 :(Blank)	Sets the host name of the diagnostic device. This should be left blank in cases where N-EVENT REPORT is not used. A maximum of 16 alphanumerical characters may be specified.
PORT NUMBER	CH01 : 6000 CH02 : 6001 CH03 : 6000 CH04~16 : 0	Specifies the diagnostic device port number. "0" should be specified in cases where N-EVENT REPORT is not used.Settings may be made within a range of 0 – 65535.
AE TITLE	CH1 : KC_CS1L_U001 CH2 : KC_PLNK3_U001 CH3 : KC_CS3L_U001 CH04~16 : (Blank)	Specifies the diagnostic device AE title. A maximum of 16 alphanumerical characters may be specified. Alphabetical settings are case sensitive. This should be left blank in cases of external devices used in the expanded port specification.

Item	Default	Descriptions
ERROR LEVEL	CH1~16 : STANDARD	Sets the method of returning DICOM errors to diagnostic devices. Do not make changes to this setting unless instructed to do so. <STANDARD> : DICOM N-GET responses: Tray empty → WARNING Maintenance in process → FAILURE Error → FAILURE <FAILURE> : DICOM N-GET responses Tray empty → FAILURE Maintenance in process → FAILURE Error → FAILURE <N-ACTION> : No error returned as DICOM N-GET response. Error returned upon N-ACTION response.

The relationship between communication between DRYPRO 793 and external devices according to DICOM error level settings is shown below.

In warming up, ready to print and tray empty statuses

(When the film empty notification is set to "OFF", including when the film is empty.)

Setting	DICOM Communication Message	Print Job Registration	DRYPRO 793 Status Displayed on External Diagnostic Device
STANDARD	NORMAL	α	READY
FAILURE	NORMAL	α	READY
N-ACTION	NORMAL	α	READY

In user/service maintenance mode active statuses

Setting	DICOM Communication Message	Print Job Registration	DRYPRO 793 Status Displayed on External Diagnostic Device
STANDARD	FAILURE	β	CHECK PRINTER
FAILURE	FAILURE	β	CHECK PRINTER
N-ACTION	NORMAL	α	READY

In tray empty status (With tray empty notification set to "ON.")

Setting	DICOM Communication Message	Print Job Registration	DRYPRO 793 Status Displayed on External Diagnostic Device
STANDARD	WARNING	β	FILM EMPTY
FAILURE	FAILURE	β	FILM EMPTY
N-ACTION	NORMAL	χ	READY

Error status

Setting	DICOM Communication Message	Print Job Registration	DRYPRO 793 Status Displayed on External Diagnostic Device
STANDARD	FAILURE	β	ERROR
FAILURE	FAILURE	β	ERROR
N-ACTION	NORMAL	χ	READY

α : Jobs may be registered.

β : In cases of diagnostic devices that ignore the DRYPRO 793 status, job registration is possible due to continuing DICOM communication.
In cases of diagnostic devices that accept the DRYPRO 793 status, job registration is not possible due to discontinuation of DICOM communication.

χ : Job registration not possible due to discontinuation of communication by DRYPRO 793 according to DICOM communication (N-ACTION response).

Item	Default	Descriptions
SIZE TYPE CHECK	CH01~16 : ON	This setting determines whether or not film information (film size, type) sent by diagnostic devices is checked. **"ON"** : Information is checked. Error is returned to the diagnostic device if film size or type in incorrect. **"OFF"** : Information is not checked. In the event that incorrect size or type information is sent, film is printed in accordance with used film size and type settings (SCU settings) without returning error information to the diagnostic device.
FORCED SPECIFIED FILM USE	CH01~16 : OFF	This setting determines whether or not film information (film size, type) sent by the diagnostic device is ignored and film size and type information settings in DRYPRO 793 used. **"ON"** : Film information sent by the diagnostic device is ignored and film size and type information settings in DRYPRO 793 used for printing. **"OFF"** : Supply tray selection and printing are carried out in accordance with film information sent by the diagnostic device.
DEFAULT TRAY	CH01~16 : 14x17 B	Sets film to be used in the event that the size type check (SCU setting) is "OFF," or the forced specified film use setting is "ON." Only film selected under [FILM SETUP] can be selected.
EMPTY NOTICE	CH01~16 : Film Info. 1 : ON Film Info. 2 : ON Film Info. 3 : ON	This setting determines whether or not tray empty notification for each type and size is sent to the diagnostic device. (Films of same size but of different type are handed as different films.) In the case of diagnostic devices that are set to use only a specific film size and type, it may not be necessary to send empty tray notification for other film sizes and types. In such cases, setting the empty tray notification of the channel to "OFF" will inhibit unnecessary empty tray notification to that diagnostic device. The film size and type set under [FILM SETUP] are displayed in this column.

6.3.4 Custom Border Setup <Service1>

p.110 PRINT CONDITION

The procedure for specifying the border size when "CUSTOM" has been selected under [BORDER SIZE] in the print condition setup is described below.

The setting is valid only when "CUSTOM" has been selected under [BORDER SIZE] in the print condition setup

Item	Default	Descriptions
TOP & BOTTOM SIZE		Sets the upper/lower border size. Settings may be made in units of 0.1mm.
LEFT & RIGHT SIZE		Sets the left/right border size. Settings may be made in units of 0.1mm.

6.3.5 System Setup <Service1>

p.102 System Setup

The procedure for making DRYPRO 793 system operational settings is described below.
The following system settings should be made.

Changing and saving system settings will result in automatic re-initialization of DRYPRO 793.

Item	Default	Descriptions
LOGIN PASSWORD	ON	Sets the method of moving to the maintenance mode with user privilege. For details of differences in DRYPRO 793 operation resulting from log-in password ON/OFF settings, refer to the operation manual. **"ON"** : Passwords are requested separately for each user. **"OFF"** : Passwords are not requested.
LANGUAGE SELECT	English	Selects the language used on the operation panel and in the Web maintenance mode. Selection may be made from the following languages: **"ENGLISH"** **"GERMAN"** **"FRENCH"** **"SPANISH"** **"ITALIAN"** **"PORTUGUESE"** **"SCANDINAVIA"** **"JAPANESE"** **"CHINESE"**
LOG WRITE MODE	NORMAL	Sets the log output status. **"NORMAL"** : Normal mode **"DETAILS"** : Detailed mode Unless otherwise instructed, this should be set to "NORMAL."
MEMORY TYPE(Display only)	512	Displays the print memory size mounted in DRYPRO 793. Changes in the print memory may be checked from the displayed value. **"512"** : 512MB print memory mounted. **"1024"** : 1GB print memory mounted.
TOTAL OPERATING TIME (Display only)	0	Displays the total DRYPRO 793 operating time.
TOTAL PRINTED SHEETS (Display only)	0	Displays the total number of sheets printed by DRYPRO 793.
VERSION (Display only)	Differs depending on the production period	Displays current software versions operating in DRYPRO 793. Version numbers after software upgrades may be checked from this display.

In cases where the optional memory expansion is installed, check that "1024" is shown in the display.
(No setting changes are necessary.)

6.3.6 User Registration <Service1>

p.105 NEW USER

Procedures for registration/amendment/deletion of user information in DRYPRO 793 are described below.

The settings detailed below are unnecessary if the log-in password has been set to "OFF."

The user name cannot be changed when making amendments to user information.
In cases where it is necessary to change a user name, new data should be registered after deleting data for that user.

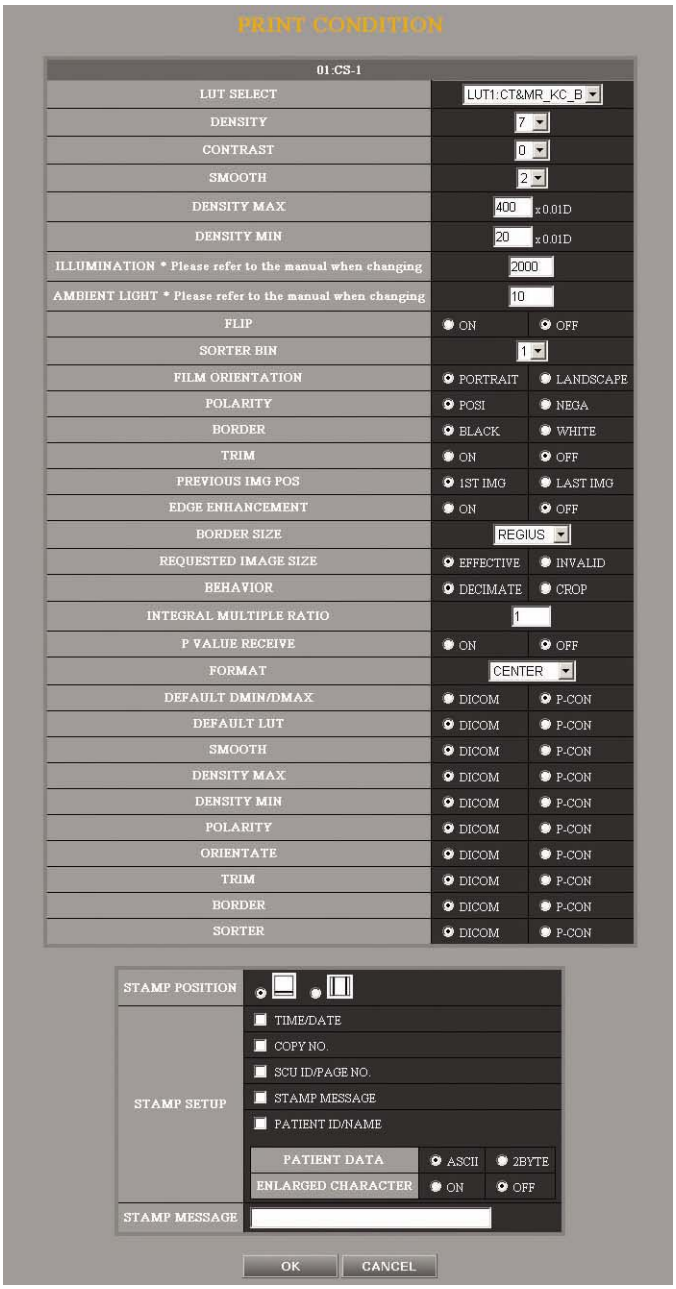
Item	Default	Descriptions
COUNT	—	Displays the number of users registered.
[ADDITION] Button	—	Used to registers new users. The screen below is displayed below the menu display field. Input the user name, privilege, password and password confirmation and click the [Addition] button. Clicking the button will result in addition of the information in the line indicated by a yellow arrow mark (>).
[MODIFY] Button	—	Allows modification of registered user information. The screen below is displayed below the menu display field. Clicking the button will result in display of the user name in the line indicated by a yellow arrow mark (>). Modify the USER ID, USER AUTHORITY, PASSWORD and PASSWORD (REINPUT) as necessary and click the [MODIFY] button.

Item	Default	Descriptions
[DELETE] Button	—	Allows deletion of registered user information. The screen below is displayed for the user name shown in the line indicated by the yellow arrow (>) below the menu display field. To proceed with deletion, click the [Delete] button.
USER ID	01 : User01 02 : User02 03~16 : (Blank)	Sets the user name. Settings may be made within a range of 1~32 alphanumerical characters. (Cannot be input when amending user information.)
PASSWORD	01 : 01 02 : 02 03~16 : (Blank)	Sets the password requested when the user logs in. Settings may be made within a range of 1~15 alphanumerical characters.
USER AUTHORITY	01 : USER LV2 02 : USER LV3 03~16 : USER LV2	Sets privileges allocated to each user. "USER LV2" : Re-output possible. "USER LV3" : Re-output possible, and settings may be changed. For details of differences in privilege at user level, refer to the DRYPRO 793 operation manual.

6.3.7 Print Condition Setting <Print Setting>

p.110 Print Condition Setting

The procedure for setting print conditions for each diagnostic device connected is described below. The following print conditions may be set.



Item	Default	Descriptions
LUT SELECT	CH01~16 : 1	Sets the LUT number to be used. Settings may be made within a range of "1" ~ "7." For details of making LUT value settings, refer to "LUT Settings."
DENSITY	CH01~16 : 0	Sets the image density. Lower settings (-) produce lighter density, higher settings (+) darker density. Settings may be made within a range of "-7" ~ "+7."

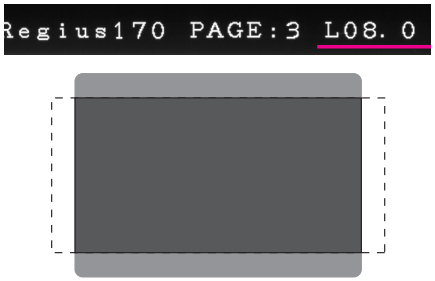
Item	Default	Descriptions
CONTRAST	CH01~16 : 0	Sets the image contrast. Lower settings (-) produce lower contrast, higher settings (+) higher contrast. Settings may be made within a range of "-7" ~ "+7."
SMOOTHING	CH01~16 : 2	Sets the image smoothing type. The higher the set value, the smoother the type. (Values that are too high will produce blurring.) Selection of a value of "7" will result in printing with a setting of [Integral Multiple Ratio] (Print condition setting). Settings may be made within a range of "0" ~ "7".
DENSITY MAX	CH1, CH2 : 300 CH03 : 400 CH04~16 : 300	Sets the maximum image density. Settings may be made within a range of "150" ~ "460."
DENSITY MIN	CH01~16 : 20	Sets the minimum image density. Settings may be made within a range of "10" ~ "30."
ILLUMINATION	CH01~16 : 2000	Sets the light table brilliance. Settings may be made within a range of "0" ~ "38000." Since the illumination level is usually sent by the diagnostic device, changes to this setting are not necessary.
AMBIENT LIGHT	CH01~16 : 10	Sets the ambient light. Settings may be made within a range of "0" ~ "38000." Since the illumination level is usually sent by the diagnostic device, changes to this setting are not necessary.
FLIP	CH01~16 : OFF	Sets image flip. **"ON"** : The image is printed flipped. **"OFF"** : The image is printed without being flipped.
SORTER BIN	CH01~16 : 1	Sets the destination bin number for printed film. Settings may be made within a range of "1" ~ "6." The sorter ascending/descending order setting is made under [Sorter Setup] (Other settings).
FILM ORIENTATION	CH01~16 : PORTRAIT	Sets the orientation in which film is printed. **"PORTRAIT"** : Film is printed in vertical orientation. **"LANDSCAPE"** : Film is printed in horizontal orientation.
POLARITY	CH01~16 : POSI	Sets image POSI/NEGA. **"POSI"** : POSI film is printed. **"NEGA"** : NEGA film is printed.
BORDER	CH01~16 : Black	Sets the film background density. **"Black"** : Film is printed with black background density. **"Clear"** : Film is printed with clear background density.
TRIM	CH01 : OFF CH02 : ON CH03 : OFF CH04~16 : ON	Sets trim to ON or OFF. **"ON"** : Film is printed with trim. **"OFF"** : Film is printed without trim.
PREVIOUS IMG POS	Re-output display frame	Specifies whether the image displayed on the re-output print screen is the first or the last frame of the film.
EDGE ENHANCEMENT	CH1 : OFF CH2 : ON CH03 : OFF CH04~16 : ON	This setting determines whether or not edge enhancement is carried out. **"ON"** : Edge enhancement is carried out. **"OFF"** : Edge enhancement is not carried out.

Item	Default	Descriptions
BORDER SIDE	CH1 : REGIUS CH2 : CT_MRI CH03 : REGIUS CH04~16 : CT_MRI	This setting determines the border size. **"REGIUS"** : Regius border size. **"CT_MRI"** : CT, MRI border size. **"CUSTOM"** : Custom border size (Details may only be set in from the Web maintenance mode.)
REQUESTED IMAGE SIZE	CH01~16 : EFFECTIVE	Sets operation for cases where the image size is specified from the diagnostic device. **"EFFECTIVE"** : The image is printed in accordance with the specified size. Operation when the specified size exceeds the film size differs depending on the setting made under [Behavior]. **"INVALID"** : The size specification is ignored.
BEHAVIOR	CH01~16 : DECIMATE	Sets operation to be carried out when the size specified from the diagnostic device exceeds the film size. **"DECIMATE"** : The printed image size is reduced. **"CROP"** : The printed image is cropped.

Operation when the size specified from the diagnostic device exceeds the actual film size is described below. (Valid only when [Requested Image Size] is set to "EFFECTIVE."

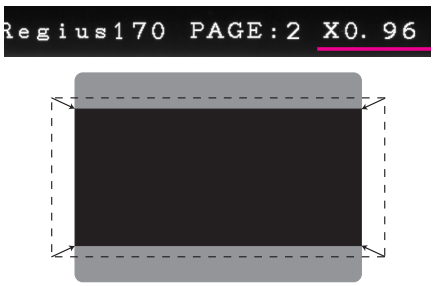
<Conditions for cropping printed image size>
- [Behavior] is set to "CROP."
- The maximum cropped portion does not exceed a length of 400mm of the specified dimensions.
- The enlarged image does not exceed the vertical film size.

→The image is printed cropped at left and right, and the cropped length is used for output of stamp information.



<Conditions for printing reduced image size>
- Above conditions do not apply.

→The printed image size is reduced and the reduction ratio output as stamp information.



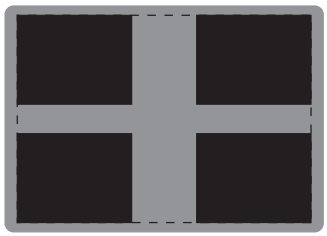
Item	Default	Descriptions
INTEGRAL MULTIPLE RATIO	CH01~16 : 1	Sets the enlargement ratio valid when smoothing is set "7." Used, for example, when the user wishes to specify print dimensions, but the diagnostic device cannot send image size requests. Settings may be made within a range of "1" ~ "32."
P VALUE RECEIVE	CH01~16 : OFF	Sets image gray scale conversion to ON or OFF. Unless otherwise instructed, this setting need not be changed. **"ON"** : Gray scale conversion is carried out using the P value. **"OFF"** : Gray scale conversion is carried out using the previous method.

Item	Default	Descriptions
FORMAT	CH01 : CENTER CH02 : EVEN CH03 : CENTER CH04~16 : EVEN	This setting determines space allocation between frames in multi-format printing. **"CENTER"** : Central allocation. **"EVEN"** : Even allocation. **"H CENTER"** : Central allocation (When diagnostic device is of Hitachi manufacture) **"H EVEN"** : Even allocation (When diagnostic device is of Hitachi manufacture)

The methods of allocation depending on format type are shown below.

<Central Allocation>
Spaces between frames are equal with margins at left and right sides expanded.

<Even Allocation>
Spaces between frames are expanded, leaving the upper/lower/left/right margins unchanged.



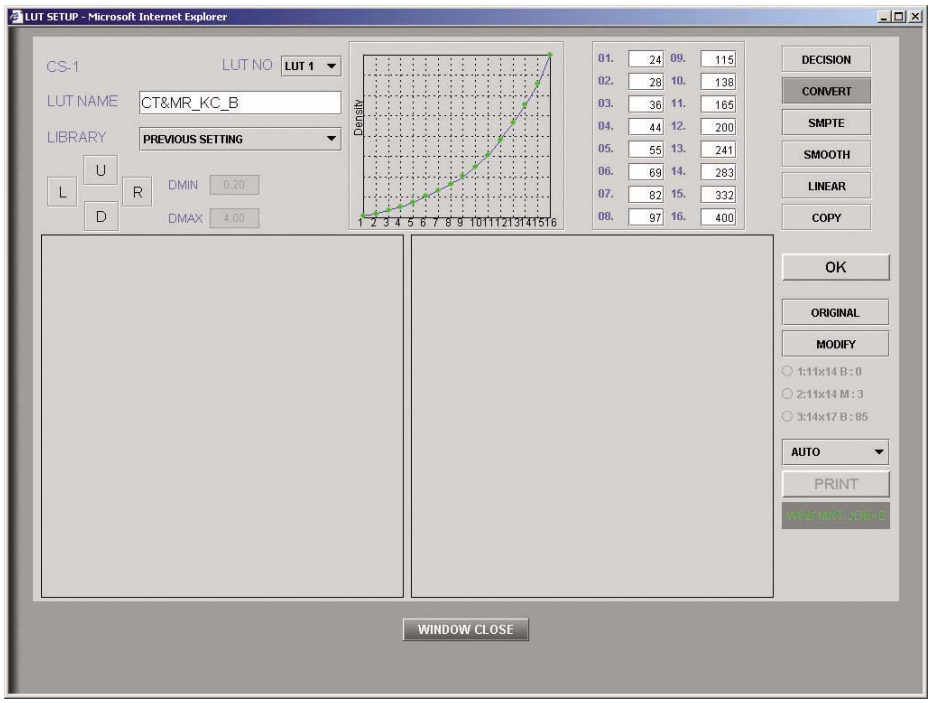
Item	Default	Descriptions
DEFAULT DMIN/DMAX	CH01~16 : DICOM	Sets acquisition of maximum/minimum density values used only for image processing. **"DICOM"** : The value specified by the diagnostic device is used. **"P-CON"** : Maximum/minimum density data included in LUT settings is used. The LUT used is specified from the diagnostic device.
DICOM PRIORITY	CH01~16 : OFF	Sets acquisition of parameters used for printing. **"ON"** : Uses values input in print condition settings. **"OFF"** : Uses values input in the diagnostic device. The following items may be set. - LUT - SMOOTHING - DENSITY MAX - DENSITY MIN - POLARITY (NEGA/POSI) - ORIENTATE - TRIM - BORDER (Background density) - SORTER (Sorter destination bin)

Item	Default	Descriptions
STAMP SETUP **< TIME/DATE >**	CH01 : OFF CH02 : ON CH03 : OFF CH04~16 : ON	This setting determines whether or not film is printed with a date stamp. **"ON"** : Date is printed. **"OFF"** : Date is not printed.
STAMP SETUP **< SCU ID/PAGE NO.>**	CH1 : OFF CH2 : ON CH03 : OFF CH04~16 : ON	This setting determines whether or not film is printed with a diagnostic device ID and page number stamp. Note, however, that, even when set to ON, these stamps are not printed on small size film (10"X12", 8"X8"). **"ON"** : The diagnostic device ID and page number are printed. **"OFF"** : The diagnostic device ID and page number are not printed.
STAMP SETUP **< COPY NO. >**	CH1 : OFF CH2 : ON CH03 : OFF CH04~16 : ON	This setting determines whether or not film is printed with a print count stamp. **"ON"** : Print count is printed. **"OFF"** : Print count is not printed.
STAMP SETUP **< STAMP MESSAGE >**	CH1 : OFF CH2 : ON CH03 : OFF CH04~16 : ON	This setting determines whether or not film is printed with a message/print count stamp. If set to ON, the message may be set from the "stamp message" setting. **"ON"** : Message/print count is printed. **"OFF"** : Message/print count is not printed.
STAMP SETUP **< PATIENT ID / NAME>**	CH1 : OFF CH2 : ON CH03 : OFF CH04~16 : ON	This setting determines whether or not film is printed with a patient ID/name stamp. **"ON"** : Patient ID is printed. **"OFF"** : Patient ID is not printed.
STAMP SETUP **< PATIENT DATA >**	CH1 : OFF CH2 : ON CH03 : OFF CH04~16 : ON	This setting determines the print format of the patient ID and name. Valid only when the [Stamp Setup] <PATIENT ID> is set to ON. **"ASCII"** : Alphabetical input. **"2BYTE"** : 2 byte character input.
ENLARGED CHARACTER	CH01~16 : OFF	Sets the stamp (patient name) print size. **"ON"** : The patient information is printed in enlarged format. **"OFF"** : The patient information is printed in normal size. ex)
STAMP MESSAGE	CH01~16 : (Blank)	Regardless of whether full or half size characters are used, a maximum of 32 characters may be input as the message printed on the stamp. In cases where characters other than alphanumericals are set in the Web maintenance mode, the message content may be referenced, but not changed. Changes may be effected from the Web maintenance mode. Valid only when the [Stamp Setup] <STAMP MESSAGE> is set to ON.

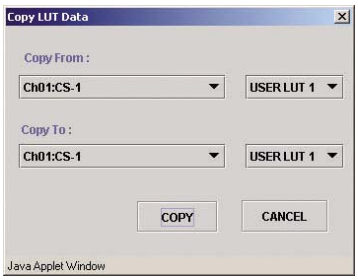
6.3.8 LUT Setting <Print Setting>

p.118 LUT SETUP

The procedure for setting print conditions for each connected diagnostic device is described below.



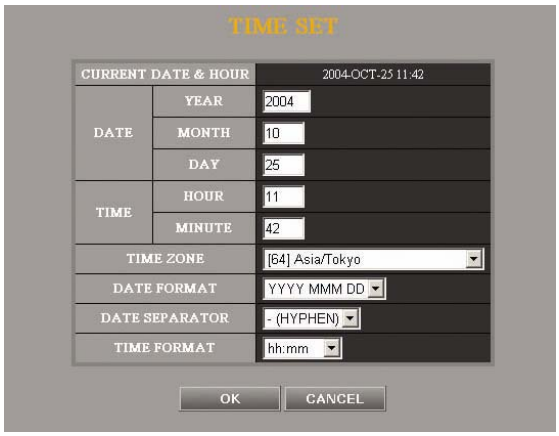
Item	Descriptions
LUT NO.	Selects the LUT for which print conditions are to be set. Settings may be made within a range of "1" ~ "7".
LUT NAME	Inputs the LUT name. Input may comprise a maximum of 16 characters.
LIBRARY	Displays the LUT library list and PREVIOUS SETTING. Selection of one of the LUT library items enables reference of that item. Selection of PREVIOUS SETTING effects return to the status prior to reflecting settings using the [DECISION] button.
[U-D-R-L] Button	Shifts the LUT curve. **[U] button** : Shifts the LUT curve upward. **[D] button** : Shifts the LUT curve downward. **[R] button** : Shifts the LUT curve to the right. **[L] button** : Shifts the LUT curve to the left.
LUT Curve	Allows adjustments to the LUT curve by dragging points on the curve.
LUT value	Allows adjustments to the LUT curve by input of numerical values.
[DECISION] Button	Reflects the input numerical values in the LUT curve. The newly set LUT curve is shown in black, while the previous curve in red.
[CONVERT] Button	Switches between input of the LUT value as a density value (value multiplied by 100) or a digital value (0 ~ 4096).
[SMPTE] Button	Switches between 16-point and 13-point (corresponding to the 13 SMPTE 0 ~ 100% levels) LUT value input.
[SMOOTH] Button	Smoothes the LUT curve.
[LINEAR] Button	Renders the LUT curve in linear format.

Item	Descriptions
[COPY] Button	Displays the LUT copy screen.  Allows copying of LUTs. Select the LUT to be copied in the "Copy from" window and the LUT to which copy is to be sent in the "Copy to" window. After selecting the LUT in "Copy From" and "Copy To", click the [COPY] button. Click the [CANCEL] button to return to the LUT Setup screen.
[OK] Button	Saves the current LUT curve setting.
[ORIGINAL] Button	Displays the previous LUT value image in the left image field.
[MODIFY] Button	Displays the modified LUT value image in the right image field. Caution: The image density shown on screen differs depending on the display and is not the same as the density of the printed image.
Film Size Radio Button	Sets the film size of film printed when the [PRINT] button is used.
[PRINT] Button	表示されているLUT曲線で、画像を9コマまたは4コマでプリントします。 （小サイズの画像は9コマ、大サイズの画像は4コマでプリントされます。）
[WINDOW CLOSE] Button	Returns to the status screen.

6.3.9 Time Set <Timer Setting>

p.124 TIME SET

The procedure for making changes to the DRYPRO 793 internal clock and for setting time/date display formats is described below.



To change the area code, first change the area code and proceed with time and date settings after the device has automatically rebooted.
Time and date settings made before rebooting will be cleared.

Item	Default	Descriptions
CURRENT DATE & HOUR	—	Displays the date and time currently set in DRYPRO 793.
DATE	(System Date)	Sets the internal clock date. Settings may be made within a range of "1970/1/1" ~ "2037/12/31."
TIME	(System Time)	Sets the internal clock time. Settings may be made within a range of "0:00" ~ "23:59" or "AM12:00" ~ "PM11:59."
TIME ZONE	64	Sets the code number for the region where the device is installed. For code numbers, refer to the "List of Time Zones".(p.189) Settings may be made within a range of "1" ~ "74."
DATE FORMAT	YYYY MMM DD	Sets the date display format. Settings made here will be reflected not only in the device itself, but also in stamps printed on films. **"YYYY MM DD"** : Y/M/D (Month expressed as a numerical value) **"MM DD YYYY"** : M/D/Y (Month expressed as a numerical value) **"DD MM YYYY"** : D/M/Y (Month expressed as a numerical value) **"YYYY MMM DD"** : Y/M/D (Month expressed alphabetically) **"MMM DD YYYY"** : M/D/Y (Month expressed alphabetically) **"DD MMM YYYY"** : D/M/Y (Month expressed alphabetically)
DATE SEPARATOR	— (Hyphen)	Sets the date delineator. Settings made here will be reflected not only in the device itself, but also in stamps printed on films. **" / "** : Slash Ex.)2005/12/24 **" - "** : Hyphen Ex.)2005-12-24 **" . "** : Period Ex.)2005.12.24 **" "** : Space Ex.)2005 12 24
TIME FORMAT	hh : mm	Sets the time display format. Settings made here will be reflected not only in the device itself, but also in stamps printed on films. **"hh : mm"** : Hour+Minute (24-hour format) **"tt hh : mm"** : AM/PM+Hour+Minute (12-hour format) **"hh : mm tt"** : Hour+Minute+AM/PM (12-hour format)
[OK] Button	—	Saves settings and returns to the status screen.
[Cancel] Button	—	Returns to the status screen without saving settings.

Month formats are as follows:

	January	February	March	April	May	June
Numerical Format(MM)	01	02	03	04	05	06
Alphabetical Format(MMM)	JAN	FEB	MAR	APR	MAY	JUN

	July	August	September	October	November	December
Numerical Format(MM)	07	08	09	10	11	12
Alphabetical Format(MMM)	JUL	AUG	SEP	OCT	NOV	DEC

List of Time Zones

Time zones and codes are shown below.

Time Code	Time Zone	Summer Time	Time Code	Time Zone	Summer Time
1	Afghanistan Standard Time	OFF	38	Israel Standard Time	OFF
2	Alaskan Standard Time	ON	39	Korea Standard Time	OFF
3	Arab Standard Time	OFF	40	Mexico Standard Time	ON
4	Arabian Standard Time	OFF	41	Mid-Atlantic Standard Time	ON
5	Arabic Standard Time	ON	42	Mountain Standard Time	ON
6	Atlantic Standard Time	ON	43	Myanmar Standard Time	OFF
7	AUS Central Standard Time	OFF	44	N. Central Asia Standard Time	ON
8	AUS Eastern Standard Time	ON	45	Nepal Standard Time	OFF
9	Azores Standard Time	ON	46	New Zealand Standard Time	ON
10	Canada Central Standard Time	OFF	47	Newfoundland Standard Time	ON
11	Cape Verde Standard Time	OFF	48	North Asia East Standard Time	ON
12	Caucasus Standard Time	ON	49	North Asia Standard Time	ON
13	Cen. Australia Standard Time	ON	50	Pacific SA Standard Time	ON
14	Central America Standard Time	OFF	51	Pacific Standard Time	ON
15	Central Asia Standard Time	OFF	52	Romance Standard Time	ON
16	Central Europe Standard Time	ON	53	Russian Standard Time	ON
17	Central European Standard Time	ON	54	SA Eastern Standard Time	OFF
18	Central Pacific Standard Time	OFF	55	SA Pacific Standard Time	OFF
19	Central Standard Time	ON	56	SA Western Standard Time	OFF
20	China Standard Time	OFF	57	Samoa StandardTime	OFF
21	Dateline Standard Time	OFF	58	SE Asia Standard Time	OFF
22	E. Africa Standard Time	OFF	59	Singapore Standard Time	OFF
23	E. Australia Standard Time	OFF	60	South Africa Standard Time	OFF
24	E. Europe Standard Time	ON	61	Sri Lanka Standard Time	OFF
25	E. South America Standard Time	ON	62	Taipei Standard Time	OFF
26	Eastern Standard Time	ON	63	Tasmania Standard Time	ON
27	Egypt Standard Time	ON	64	Tokyo Standard Time	OFF
28	Ekaterinburg Standard Time	ON	65	Tonga Standard Time	OFF
29	Fiji Standard Time	OFF	66	US Eastern Standard Time	OFF
30	FLE Standard Time	ON	67	US Mountain Standard Time	OFF
31	GMT Standard Time	ON	68	Vladivostok Standard Time	ON
32	Greenland Standard Time	ON	69	W. Australia Standard Time	OFF
33	Greenwich Standard Time	OFF	70	W. Central Africa Standard Time	OFF
34	GTB Standard Time	ON	71	W. Europe Standard Time	ON
35	Hawaiian Standard Time	OFF	72	West Asia Standard Time	OFF
36	India Standard Time	OFF	73	West Pacific Standard Time	OFF
37	Iran Standard Time	ON	74	Yakutsk Standard Time	ON

6.3.10 Maintenance Schedule <Timer Setting>

p.128 Maintenance Schedule Setup

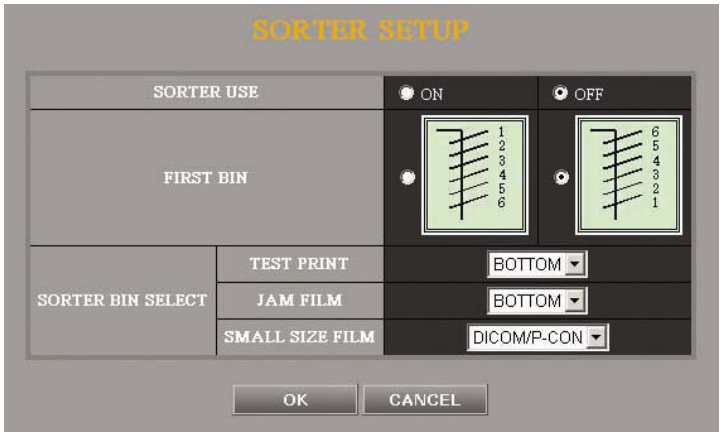
The procedure for initializing the DRYPRO 793 Maintenance schedule is described below.
During installation, the time elapsed between shipment and installation must be reset. All the items shown below must be reset.
Maintenance schedule items to be initialized are shown below.

Item	Descriptions
MAINTENANCE A	Returns inspection schedule-A (every 40,000 sheets or 2 years) to the factory setting. <Details> - Deodorant filter replacement (deodorant unit)
MAINTENANCE C	Returns inspection schedule-C (every 20,000 sheets) to the factory setting. <Details> - Opposing roller cleaning (HPRO unit) - Cleaning of the HPRO drum with alcohol (HPRO unit) - Cleaning of secondary cooling guide with alcohol (cooling conveyor unit) - Dust removal from cooling air intakes (cooling unit) - Dust removal from the area surrounding the deodorant filter case (cooling conveyor unit) - Cleaning sheet cleaning (descent transport unit) - Cleaning of suction pads with alcohol (supply unit) - Densitometer cleaning (cooling conveyor unit) - Overall dust removal from the entire device
MAINTENANCE D	Returns inspection schedule-C (every 20,000 sheets) to the factory setting. <Details> - HPRO drum bearing replacement (HPRO unit) - Separator unit replacement (HPRO unit) - HPRO cover replacement (HPRO unit) - Cleaning of insertion guide unit with alcohol (HPRO unit) - Opposing roller cleaning pad replacement (HPRO unit) - Cleaning of primary cooling guide with alcohol (cooling conveyor unit) - Unwoven fabric roller replacement (cooling conveyor unit)
HDD	Returns inspection schedule (every 20,000 running hours or 5 years) to the factory setting.
FILTER	Returns the deodorant filter replacement schedule to the factory setting.
CLEANING	Returns inspection schedule (every 2,000 sheets only when mammography film is loaded) to the factory setting. [Icon] button : Sets display/non-display of cleaning icon. **ON** : The cleaning icon is displayed when inspection becomes due. **OFF** : The cleaning icon is not displayed even if inspection is due.

6.3.11 Sorter Setup <Timer Setting>

p.131 Sorter Setup

Sets the DRYPRO 793 sorter usage status.
Settings are unnecessary in cases where the sorter is not used.
The following sorter settings should be made.



Item	Default	Descriptions
SORTER USE	OFF	Sets the sorter usage status. **"ON"** : Sorter used. **"OFF"** : Sorter not used.
FIRST BIN	(Descending order)	Sets sorter number sequence. **"(Descending order)"** : Bins are allocated in order from the highest number. **"(Ascending order)"** : Bins are allocated in order from the lowest number.
SORTER BIN SELECT TEST PRINT	Bottom bin	Sets the destination bin for test prints. **"Top bin"** : Output to the top bin. **"Bottom bin"** : Output to the bottom bin.
SORTER BIN SELECT JAM FILM	Bottom bin	Sets film destination bin for use when a film jam occurs. **"Top bin"** : Output to the top bin. **"Bottom bin"** : Output to the bottom bin.
SORTER BIN SELECT SMALL SIZE FILM	DICOM/Printer condition	Sets the film destination bin when small film sizes are used (10"X12", 8"X10"). **"Top bin"** : Output to the top bin. **"Bottom bin"** : Output to the bottom bin. **"DICOM/Print condition"** : Output to bin specified in DICOM receipt value, or in the print setup.

When the sorter option is mounted, [Sorter Use] must be set to ON.
Changes to settings should be made after the sorter has been installed in DRYPRO 793.
Changes to settings before sorter installation may result in error.

Specifications

Specifications of the DRYPRO 793 is detailed in the following pages.

Product Name	Laser Imager DRYPRO Vstage MODEL 793
CODE No.	CE : 0791 UL : 0792
Model	DRYPRO Vstage MODEL 793
Laser Source	Semiconductor Laser
Film Type	Medical Imaging Film SD-P, SD-PC, SD-PM
Film Size	14 x 17 inch 14 x 14 inch 11 x 14 inch 10 x 12 inch 8 x 10 inch Film sizes are set when the unit is installed.
Input Interface	Ethernet 10 base-T / 100 base-TX / 1000 base-T
Protocol	DICOM Print Management
Ports(IN)	16 ports max.
Main Memory	256MB Standard
Image Memory	Hard Disk : 80GB standard Print Memory : 512MB standard (with option : 1024MB)
Processing Capacity	14 x 17 inch : approx. 120 sh/hr 14 x 14 inch : approx. 130 sh/hr 11 x 14 inch : approx. 150 sh/hr 10 x 12 inch : approx. 120 sh/hr 8 x 10 inch : approx. 120 sh/hr
External Dimensions	Without Sorter : 675 (W) x 640(D) x 1420(H)mm With Sorter : 675(W) x 640(D) x 1543(H)mm
Weight	Approx. 235kg (517.6 lb)
Power Source	CE : 220V to 240 V +/-10% AC (single phase) 4.5A (50/60Hz) UL : 120V +/-10% AC (single phase) 9.0A (60Hz)
Generated Heat	approx. 1200kJ/hr (approx. 286kcal/hr)
Operation Conditions	15 - 30℃/ 30 - 70%RH (no condensation)
Transport & Storage Conditions	– 20 - 60℃/ 20 - 90%RH (no condensation)
Noise Level	Standby : 50 dB or less Printing : 55 dB or less
Operation Panel	Color LCD with touch panel
Film Supply	Trays
No. of Trays	Max. 3 trays (125sh/tray) 14 inch x 1ch standard. 2, 3rd CH is optional. Trays available for 14 inch, 10x12 inch, 8x10 inch
Image Data Input	8 bits (256-step gradation) or 12 bits (4096-step gradation) (Depends on modality image signal.)
Output Gradation	16384-step gradation (14 bits)
Image Mode	Pixel replication / Function interpolation process.
Pixel Size	Selectable from 43.75μm(standard) 25μm(fine) (however, 25μm (fine) is only available for 8x10 inch, 10x12 inch and 11x14 inch)

Max. Pixels	

Film Size	Connected to REGIUS	Connected to other than REGIUS
14x17 inch	8,079 x 9,725 pixel	7,805 x 9,336 pixel
14x14 inch	8,079 x 7,988 pixel	7,805 x 7,599 pixel
11x14 inch	6,273 x 8,079 pixel	6,090 x 7,599 pixel
10x12 inch	5,766 x 6,826 pixel	5,492 x 6,438 pixel
8 x 10 inch	4,596 x 5,674 pixel	4,321 x 5,286 pixel

No. of Frames	1, 2, 4, 6, 8, 9, 12, 15, 16, 20, 24, 25, 28, 30, 32, 35, 36, 40, 42, 48, 54, 56, 60, 63, 64
Neg/Pos	Available
Trim	Available
Border	Black or Clear
Stamp	Prints in one or two lines. (position selectable from 4 edges on the film)
Density Correction	Equipped in the system main unit.
Start Timer	Resumes "READY" at a specific time set by the timer. ON/OFF of the function can be selected for each day
Applicable Safety Standards	IEC60601-1-2 : 2001, IEC60601-1 : 1988, IEC60825 : 2001
Remarks	DRYPRO 793 is produced in dfactories that have been certified to be in compliance with the ISO9001 : 2000 and ISO13485 : 2003, quality control standards as well as with the medical device directive FDA Premarket Notification 510(k) and GMP.
Accessories	Power Cable, Cutter(For Film loading) 2 pcs, Size Exchange Parts(1set), Warranty, Operation manual, Accessory list, Deodorant Filter, Attached document for doctors, Inspection sheet, Protection hardware (red parts) recycle bag, Clamp (2 pcs), Suction cups (2pcs), Film Holder (2pcs)
Options	Lis-793 (6CH Sorter), Multi-Client Software License, Print Memory (1GB), 14inch Supply kit, 10inch Supply kit, 8inch Supply kit, Cleaning Sheet
Warranty	12 months after installation

These specifications are subject to change without notice due to continual improvements.

The DRYPRO 793 incorporates iconCube PHP Accelerator (PHPA 1.3.3r2) .

A part of software program and drivers are provided under the permission of GNU General Public License (GPL).

Refer to the following URL for the full text of GNU General Public License (GPL).
http://www.fsf.org/license/gpl.html

Source code of the program used on the DRYPRO 793 can be downloaded from the following URL.
http://www.konica minolta.jp/mi

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